

WEED WORLD™

ISSUE 130

CHICLE

AKA BUBBLEDWG

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ROOTS**

PART 2 INDOOR
HYDRO

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the **RIPPER**

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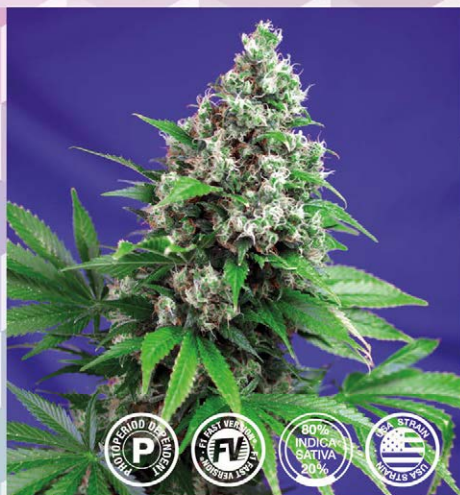
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Killer Kush F1 Fast Version®

Variety SWS52

Indica/Sativa: 80%/20%

Indoor Yield: 400-600 g/m²

Outdoor Yield: 350-600 g/plant

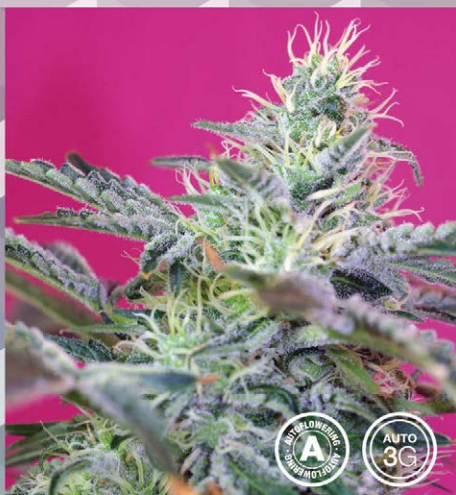
Indoor Blooming: 7 weeks

Outdoor Harvest: early September

<http://sweetss.net/kushweed>

3+1s 19,90 €

5+2s 33,00 €



Sweet Cheese Auto®

Variety SWS33

Indoor Yield: 350-550 g/m²

Outdoor Yield: 35-175 g/plant

Indoor/Outdoor Harvest:

8 weeks from germination

Height: 60-110 cm

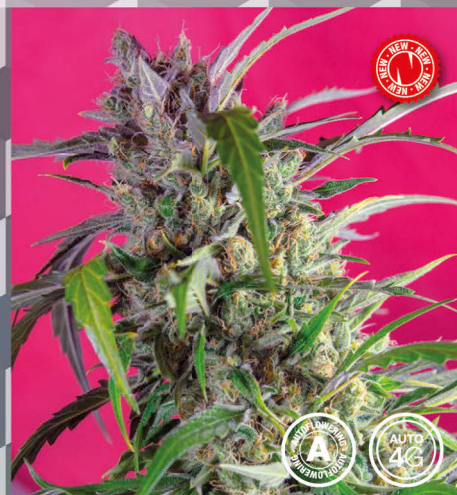
<http://sweetss.net/cheeseweed>

3+1s 14,90 €

5+2s 24,50 €

25s 100 €

100s 350 €



Crystal Candy Auto®

Variety SWS61

Indoor Yield: 400-600 g/m²

Outdoor Yield: 50-300 g/plant

Indoor/Outdoor Harvest:

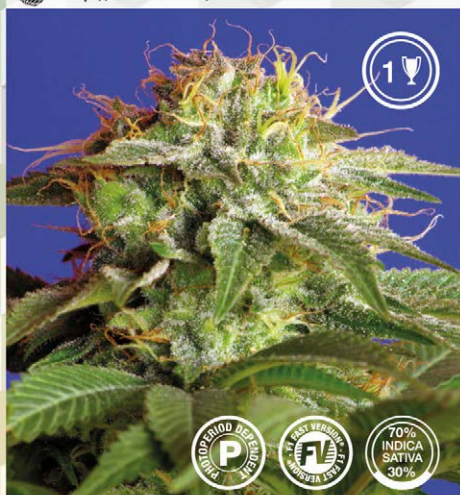
8 weeks from germination

Height: 70-130 cm

<http://sweetss.net/cyautsuken>

3+1s 23,90 €

5+2s 39,80 €



Green Poison F1 Fast Version®

Variety SWS41

Indica/Sativa: 70%/30%

Indoor Yield: 500-600 g/m²

Outdoor Yield: 500-700 g/plant

Indoor Blooming: 6 weeks

Outdoor Harvest: late August to early September

<http://sweetss.net/greenweed>

3+1s 22,50 €

5+2s 37,50 €



Sweet Skunk Auto®

Variety SWS34

Indoor Yield: 400-500 g/m²

Outdoor Yield: 35-150 g/plant

Indoor/Outdoor Harvest:

7½ weeks from germination

Height: 60-90 cm

<http://sweetss.net/skunkweed>

3+1s 14,50 €

5+2s 23,90 €

25s 100 €

100s 350 €



Dark Devil Auto®

Variety SWS38

Indoor Yield: 400-600 g/m²

Outdoor Yield: 50-200 g/plant

Indoor/Outdoor Harvest: 8½ weeks from germination

Height: 80-130 cm

Purple Flower: approx. 90% of the specimens

<http://sweetss.net/devilweed>

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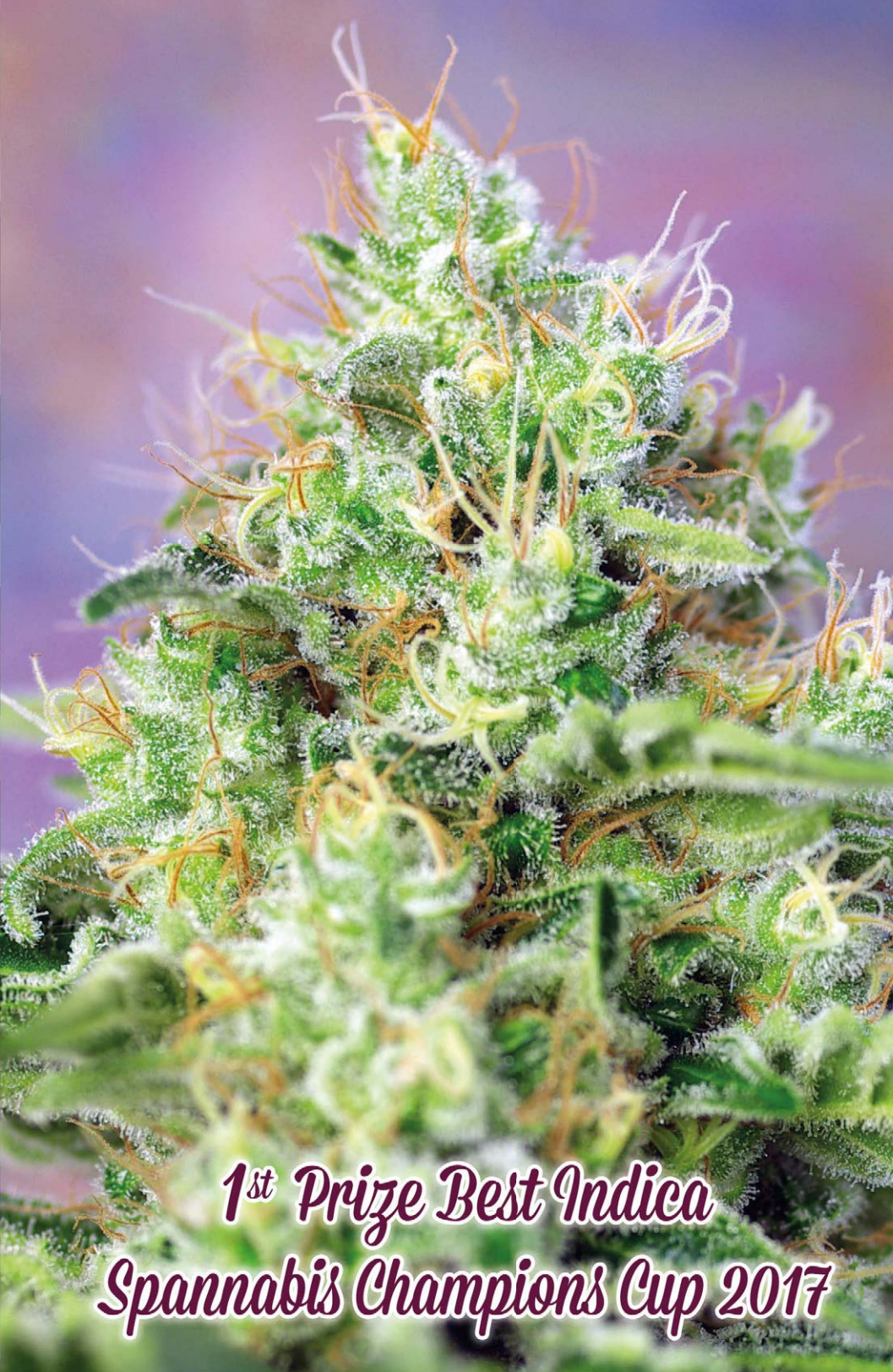
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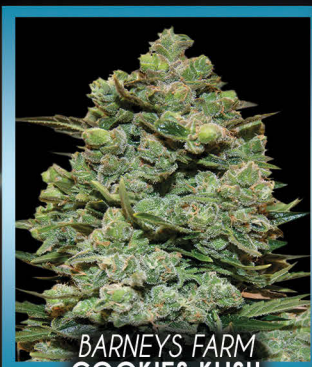
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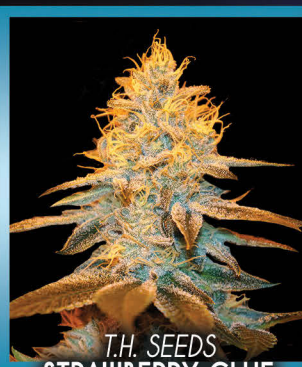
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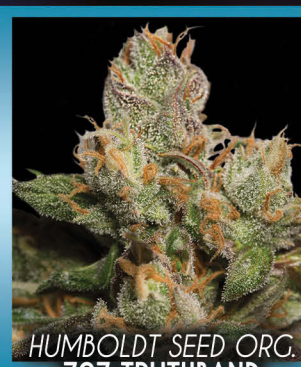
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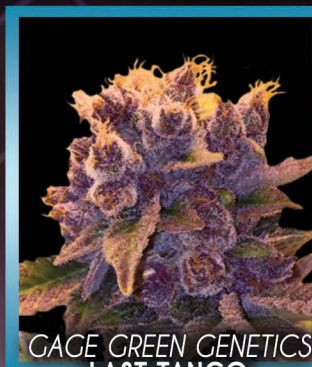
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COOKIES KUSH



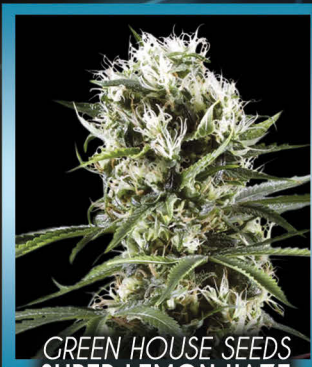
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707 TRUTHBAND



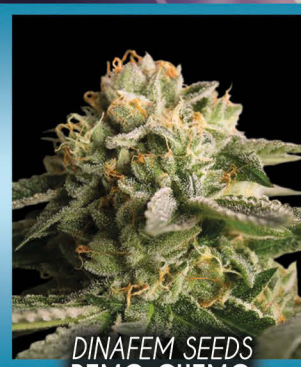
GAGE GREEN GENETICS
LAST TANGO



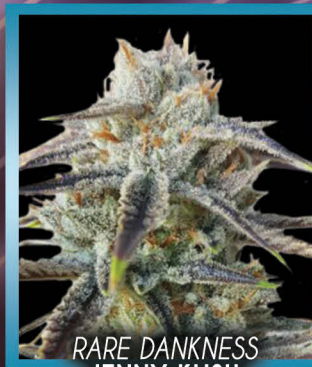
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SUPER LEMON HAZE



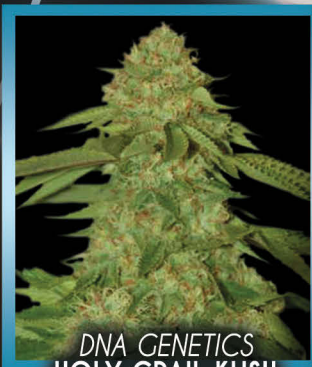
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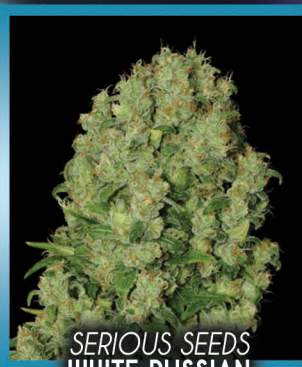
DINAFEM SEEDS
REMO CHEMO



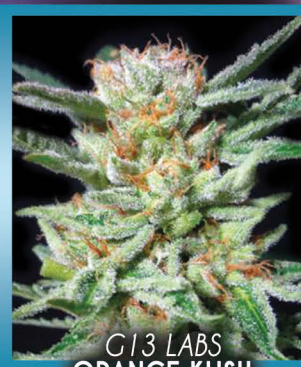
RARE DANKNESS
JENNY KUSH



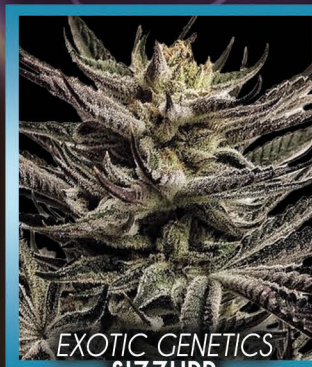
DNA GENETICS
HOLY GRAIL KUSH



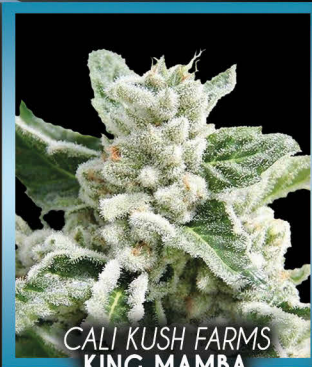
SERIOUS SEEDS
WHITE RUSSIAN



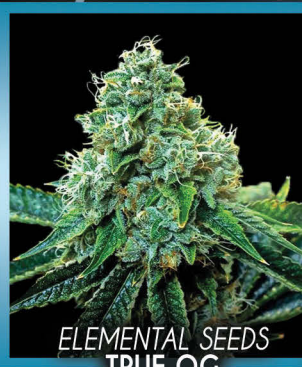
G13 LABS
ORANGE KUSH



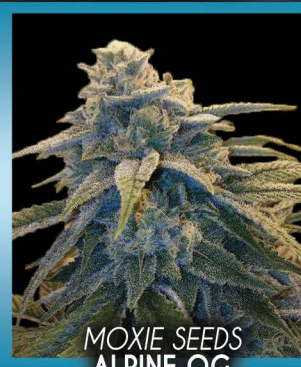
EXOTIC GENETICS
SIZZURP



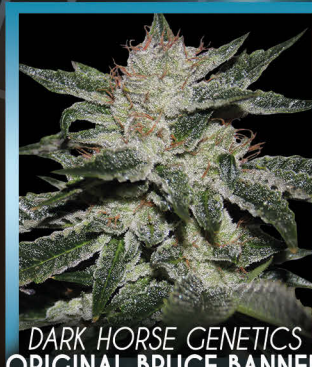
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ISSUE 130

WELCOME TO WEED WORLD

WEED WORLD was founded in 1991 and is a bi-monthly (published every 2 months) magazine. We always knew the true benefits of medical marijuana so, with this in mind, we became a fighter for the cause and a true innovator. Our job was to keep people informed about this wonderful plant and how they can medicate themselves. We are still doing that to this day! Thanks to all of our readers for supporting us over the years and to all of the people who work with us to help create this amazing magazine.

NEVER MISS AN ISSUE!

Weed World magazine subscriptions are available in print and digital formats.



The Weed World magazine app is available to download for your tablet and phone.

FROM THE EDITOR

Welcome to issue WW130

We hope your season is going well and you will soon be rewarded with the fruits of your labor!

This issue is packed with interesting articles. Look out for part two of "The Indoor Hydroponic Grow Room", which gives you an overview of products if you are looking to grow your own medicine at home. Dutch Passion reveals some new cannabinoid discoveries: CBD-V and CBG; Sensi Seeds have an amazing article about the recreational rectal use of cannabis - not one to miss!

Frenchy investigates "Cannabis from Gateway to Getaway", which looks at how society is addicted to vast amounts of legal and illegal drugs and what cannabis's role is. Don't miss our Case Study series either; this touches on real people's stories. This issue is all about Jaidah.

We also have many strain reviews, "My Favorite Bud" and so much more...

We hope you enjoy!

WARNING! Germination of Cannabis seed is illegal in the UK. Weed World Ltd sells seed as a collectable adult souvenir only. Please note: You have to be at least 18 years old to order any seeds.

UNITED KINGDOM LAWS. By section 6 of the Misuse of Drugs Act 1971 it is an offence to cultivate any plant of the genus Cannabis in the United Kingdom without a license from the Secretary of State. Anyone committing an offence contrary to this section may be imprisoned or fined, or both. Please note therefore that germination of cannabis seeds, without an appropriate license is illegal in the United Kingdom.

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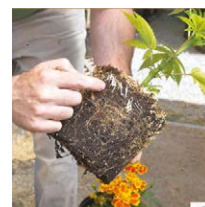
Feminized, Autoflower and Regular cannabis seeds for Recreational and Medical use.



48

Strong Roots Survive: Heritage Humboldt farmers...

Known internationally as a top cultivator and propagator, Kevin Jodrey is a master gardener who runs Wonderland Nursery in the epicenter of California's craft cannabis community: Humboldt. Kevin shared his best practices for selecting genetics with Weed World for Issue 128, and...



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The Indoor Hydroponic Grow Room: Part 2

Previously, we have looked at the basic grow room requirements, so now let us look at the hydroponic side of things. I am going to look at four base hydroponic systems, all of them recirculating set ups, and all of them with very similar maintenance regimes. I must stress...



102

The new wave of cannabinoids: THC-V, CBD-V and CBG...

Soon there will be some exciting new cannabis varieties rich in THC-V, CBD-V and CBG. These new varieties are currently being developed using selective breeding techniques to increase the concentration of these unusual cannabinoids. Specifically, the breeding community is...



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Plus! Look out for the BONUS strain reports!

This issue's cover: Chicle (T.H.Seeds, image by Green Born Identity - G.B.I.)

CONCENTRATED THC

Calamity Jane



The New Buddha Seeds Bank variety is an American tough girl, who stands out for her high THC content. Calamity Jane.

Proves wrong those who say that autoflowering varieties are less potent. Its high THC content can compete face to face with non autoflowering varieties in the market.

It's the fruit of our labor using the Grimm's Brothers American classic genetics. Our Seed Bank has developed many lines and has finally selected the new Calamity Jane, a Sativa predominant hybrid, created through crossings with our Magnum and using masal selection and chromatography analytic technics.

After years of applying top notch techniques to select exemplars, we have increased the potency in all our varieties. Nonetheless Calamity Jane is the paramount, reaching THC levels up to 20%.



Buddha
s e e d s



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FEATURED PRODUCTS

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POTENT
MEDS

REMO CHEMO

DINAFEM

Remo Chemo's extremely high THC levels, rising to 24%, not only make her a must for cannabis gourmets with a liking for mind-blowing genetics but they also confer a myriad of therapeutic properties on her. Remo Chemo derives from UBC Chemo, a strain that, according to legend, was developed by some researchers from the University of British Columbia with the objective of alleviating the side effects of chemotherapy in cancer patients, and a regular Bubba Kush male. The result is a dense and sturdy indica-dominant plant that thrives when grown in dry environments. A real sight to behold.

Sex: feminized
Genotype: 35% Sativa – 65% Indica
Indoor flowering time: 65-70 days
Outdoor harvest: mid-October
In/Outdoor yield: 500g/m² / 1000 g/plant
Outdoor height: 250cm
THC: 24% **CBD:** 0.1%

Available from:
dinafem.org



STASH
CASE

Trove Rolling Stash

GREEN WIZARD

The king of all smoking lifestyle accessories, the Trove All-in-one Grinder and Stash Case conveniently allows the user to keep all their smoking essentials safe from harm. Built with a fantastic design, this indispensable product is fully watertight and smell-proof. Perfect for taking out and about, to festivals, parties or conventions. Roll on the go and prepare for later.

A Special 'V' Section allows the user to keep papers or cigarettes protected, while the actual grinder is magnificent for grinding the user's chosen aromatherapy blend.

- Official genuine Green Wizard product
- Trove Storage & Stash Grinder
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- Available in blue and green

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HAPPY
HIGH

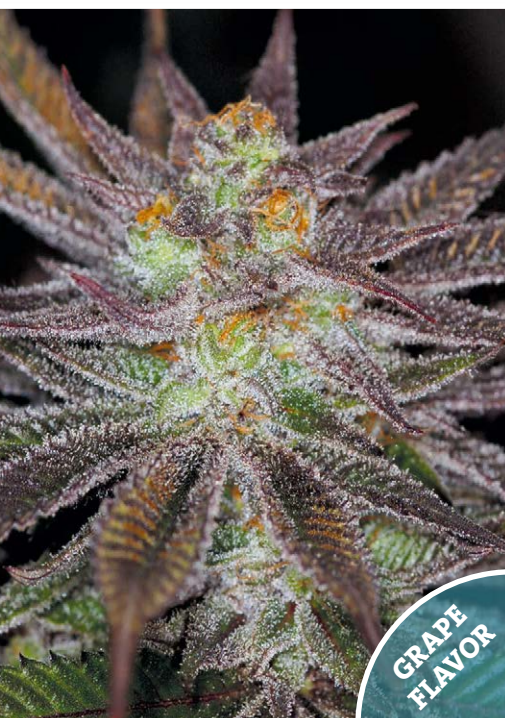
French Cookies

T.H. SEEDS

After traveling to Cali doing some testing, we found a seed in a bag of the Legendary Platinum Cookies. Back in the T.H.Seeds® lab we grew it out and found a gem of a Cookie with all the goodness the Cookie plant can give. The color combination is hard to describe, as it is a uniquely beautiful plant, but the leaf color goes from rich, dark green to deep purple to almost black, while the buds are a combination of crystal white resin and light orange hairs. For a Cookies variety the yield is really good. She stretches during the first three weeks then stops and starts to produce the most unique and colorful flowers. The Cookies fragrance starts coming out little by little with a touch of grape and the high provides you with happy feelings and creative thinking.

TYPE: Sativa 60%/Indica 40%
HEIGHT: 125-130 cm
YIELD: 350-450 per m²
FLOWERING TIME: 60-70 days

Available from:
thseeds.com



Querkle

TGA GENETICS

This Indica dominant hybrid has a great taste and out of 5 plants tested 4 females turned a nice shade of purple with warm temps throughout. Our goal was to recreate a nice grape flavor but add some speed to the slow Urkle mom and the results are better than we expected. As a bonus, we ended up finding 2 keeper moms from the very small test run we did. Results from the field verify mild variation, good yields and fantastic flavor and colors. This hybrid has previously been featured in both Skunk and Hightimes magazine.

PHENOTYPES: Two main females

HEIGHT: Short and dense

YIELD: Medium to heavy

BEST WAY TO GROW: Vegged to a large bush or untopped in scrog

HARVEST: 8 weeks

SAT/IND: 20/80

HYBRID: Urkle x Space Queen

HIGH: Indica head high and grape taste make it a total all-day head stash

TASTE: Grapes, fruit, berries, musty

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tgagenetics.com



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MedaStix™ is a medicinal cannabis electronic vaporizing e-cig for your medical needs.

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ON BALANCE

On-Balance is proud to announce the launch of the first ever digital scale produced specifically for the weight-based DIY E-Liquid market. In addition to having a large platform, capacity of 500g and accuracy of 0.01g, it offers a dual display and a totalizing feature. This totalizing feature allows you to measure many individual ingredients whilst tracking the total weight. The user verifies each ingredient weight (VG, PG, flavors, nicotine) and when finished can confirm the final total weight.

Advantages to DIY by weight VS volume: More accurate and consistent, faster mixing, easier, quicker clean-up and better for environment.

The scale has a stainless platform with a green back light, a detachable lid/tray and overload protection. Accessories include 2 x 200g weights for calibration and a USB power lead.

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LOOK AT THIS!

Bob Marley Flash Bong MAGIC GLASS

Bob Marley adorns this bong with a sandblasted mouthpiece and a sandblasted bowl.

Easy to hold and the kink neck provides ample room for ice!

This excellent bong is a staff favorite at Weed World.

Check them out and get yours now on the site!

Height: 44cm
Joint: 18.8mm
Total Volume: 900 ml,
Water Volume: 250 ml,
Smoke Volume: 650 ml

Available from:
weedworld.co.uk



EXOTIC & SPICY

Indigo Berry Kush® SWEET SEEDS®

This new strain is a hybrid cross between two elite clones: So G Kush (OG Kush x LA Confidential x Trainwreck) and Blue Monster (Blueberry'99 x Black Domina'98). The Blue Monster clone is the same used to develop Cream Caramel® (Sweet Seeds® Variety SWS04) and it is the main reason for the earthy soul aroma of this classic strain from the Sweet Seeds® collection. The aroma of Indigo Berry Kush® (SWS63) is very sweet with citric tones and a pleasant strong earthy background. This solid scent comes mixed with a background of aromas typical of the OG Kush family, featuring exotic and pepper spicy tones with a fresh touch of cypress. The plants grow with mostly Indica structure, producing a big main bud, very resinous and compact, complemented with multiple side branches. This strain is a great producer of resin crystals.

Available from:
sweetseeds.es



LOOK AT THIS!

8-Ball BARNEY'S FARM

From the Afghani/Pakistani mountain regions, 8-Ball is the result of many years of selective inbreeding. Very easy to grow and manicure and a good producer even under unfavorable conditions. 8-Ball stays short and has wide dark green leaves with dense buds forming on thick stems.

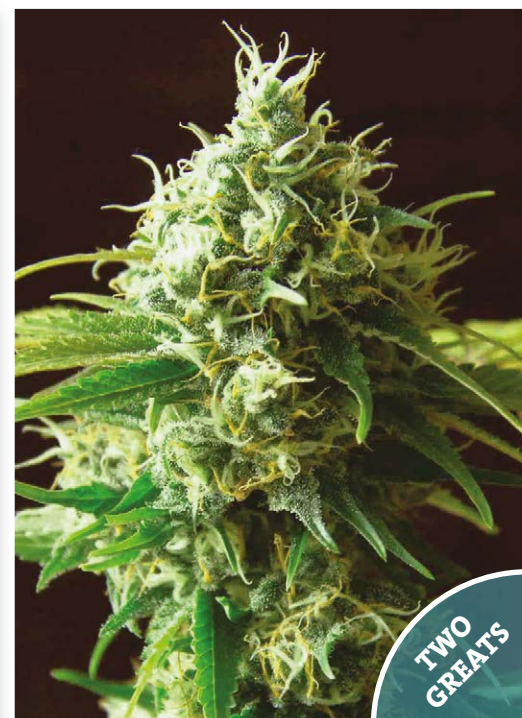
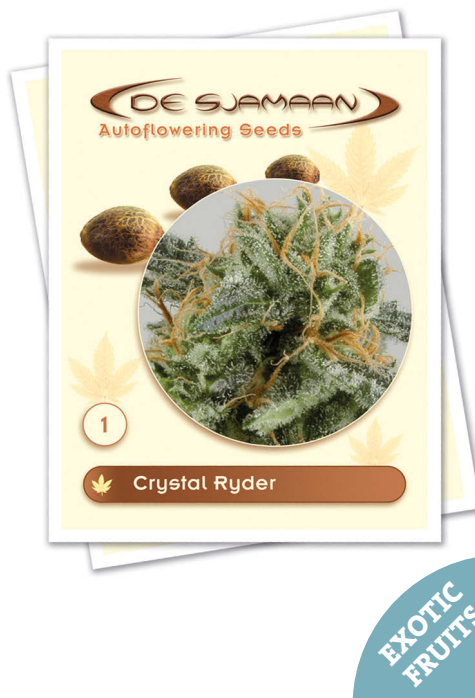
This sturdy, short plant is a good choice for both SOG and ScrOG gardens. It grows wide, dark leaves and produces dense buds that form on thick stems. The flavors are classic Kush: earthy and musky, with deep spicy accents.

Indica dominant marijuana strain
FLOWERING TIME: 56-60 days
THC: 19%
CBD: 1.4%
Suitable for cool and temperate climates
YIELD: 500-600 grams per m²

Available from:
weedworld.co.uk



**MASSIVE
YIELDS**



**TWO
GREATS**

Original Bruce Banner

DARK HORSE GENETICS

Attitude Seedbank are proud to welcome an epic hero into their stable of strains. Taking its name from the ever-popular beast of a superhero known as 'The Hulk (aka Bruce Banner)' this strain certainly lives up to its namesake by being green, monstrous and super strong. Dark Horse Genetics' Bruce Banner is the original cross which created Bruce Banner - using the same female and male - and this fantastic strain is a genetic crossover of OG Kush and Strawberry Diesel. Outstanding results thanks to the BB3 and BB5 phenotypes which were found in less than a dozen of these seeds. Unrivalled potency, tremendous resin production and massive yields. If you like your buds to have a bit more muscle than average then this could be the hero you are looking for.

FLOWERING TIME: 70 Days

SEX: Regular

TYPE: Sativa Hybrid

Available from:

cannabis-seeds-bank.co.uk

Crystal Ryder

DE SJAMAAN

Crystal Ryder is truly a second generation Autoflowering strain. By Crossing the original Low Ryder with the Brazilian Hybrid Santa Maria, a variety was created that will grow slightly bigger than the Dwarf Ryder and will give a strong and exotic high with a taste that will remind you of tropical fruits. Growing Crystal Ryder is easy, and can be done anywhere you like, indoor, outdoor, on the balcony, whichever you prefer. You can harvest in under 10 weeks, without needing a separate room, or any specific light cycle.

TYPE: Indica: 75% Ruderalis: 25%

FLOWERING TIME: 6-8 weeks

HEIGHT INDOORS: 40-80cm

SUITABLE FOR OUTDOOR: yes

HARVEST OUTDOORS: end of Sept.

HEIGHT OUTDOORS: 80cm

CANNABINOID CONTENT: high

CBD CONTENT: low

EFFECT: physically stoned, mentally stoned

TASTE: fruity, fresh

Available from:

weedworld.co.uk

Cheese Kush

KUSH CANNABIS SEEDS

Kush Cannabis have been breeding for over 15 years. Their genetics have been collected from the purest strains that date back generations in the Hindu Kush and decades in North America.

These two strains, Cheese and OG Kush, bring a combination of the best of the US and the best of the UK making for something very special indeed, heavy hitting and heavy yielding. The UK Cheese is now legendary worldwide and crossed with OG becomes something that is altogether stellar in both quality and quantity, she will stink to high heaven when in full flower.

Type: Indica Dominant
Fem/Reg

Height: Medium, 100-150cm

Grow Area: Indoor/Outdoor/
Greenhouse

Flowering Time: 8 weeks

Flowering Period: October

Yield: High > 450g

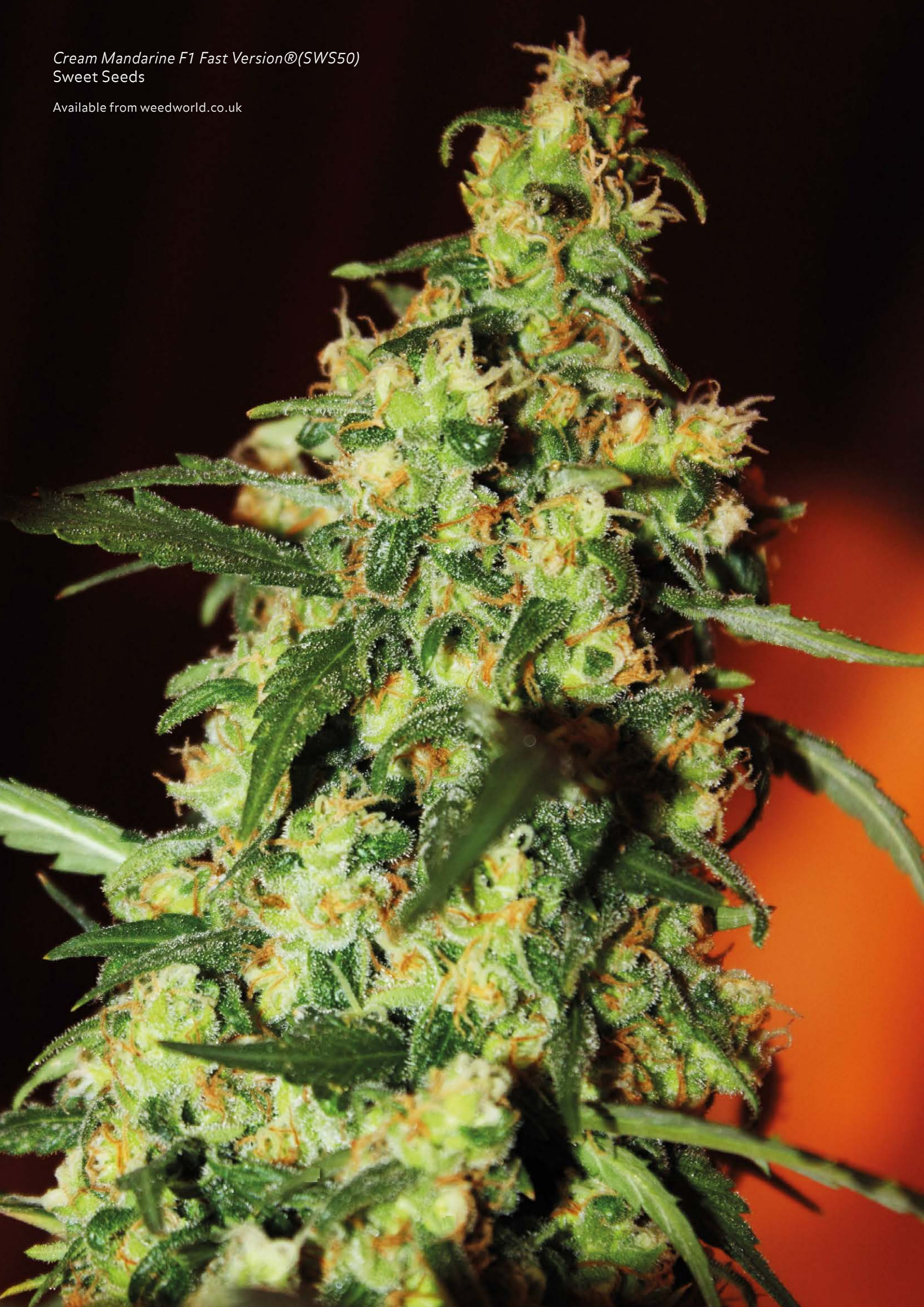
Medicinal Level: Low

Available from:

kushcannabisseeds.com

Cream Mandarin F1 Fast Version®(SWS50)
Sweet Seeds

Available from weedworld.co.uk



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graph TD; A[SEVEN 11] --- B[BARNES & NOBLE]; A --- C[CIRCLE K]; B --- D[TOWER RECORDS]; B --- E[HYDRO STORES]; B --- F[COMIC BOOK STORES]; B --- G[NEWS STANDS]; D --- H[TATTOO PARLOURS]; D --- I[DISPENSARIES & COLLECTIVES]; E --- J[GARAGES & CONVENIENCE STORES]; E --- K[LIQUOR STORES]; E --- L[AIRPORTS]; H --- M[TRAIN STATION KIOSKS]; H --- N[ALTERNATIVE LIFESTYLE STORES]; I --- O[HEAD SHOPS];
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SEVEN 11

BARNES & NOBLE

CIRCLE K

TOWER RECORDS

HYDRO STORES

COMIC BOOK STORES

NEWS STANDS

TATTOO PARLOURS

DISPENSARIES & COLLECTIVES

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LUNG CANCER



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Medical uses:

Chronic pain, body relief without mental intoxication, insomnia, nausea, and more...

Genetics: OG Kush x Blueberry

75% Sat. 25% Ind.

THC: 15-20% | **CBD:** 10%

Flowering: 6-10 weeks

Yield: Medium

Treatment

One of our medicinal marijuana patients had Type B, Stage 3 Lung Cancer. After 9 months of being treated with RSO¹ and Chemo², he was able to sustain an appetite and did not suffer any hair loss.

The cancer cells shrunk into a knot that they were able to be removed with minor surgery. Our patient is now cancer free!

The treatment information featured above was provided by a third-party customer.

Notes

RSO: Rick Simpson Oil. A medicinal oil derived from medicinal marijuana. High concentrations of cannabinoid receptors exist in the human brain, which makes our relationship with this plant unique, it is a lock and key system that helps relieve the symptoms of certain illnesses.

Chemo: Chemotherapy. A cancer treatment where medication is used to kill cancer cells. The problem with this, is chemotherapy also damages healthy cells and can cause: tiredness, vomiting, hair loss, an increased risk of developing infections, a sore mouth, sore or itchy skin, diarrhoea or constipation.

Our medicinal marijuana strains can help relieve many symptoms.
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Photography: ©stokkete Information: www.weedworld.co.uk/using-cannabis-to-treat-cancer

Each issue, you write, email or call us to tell us about your favorite strains and seed breeders. We love hearing how marijuana's medicinal benefits are helping you and remember, your endorsement could mean you end up helping another reader find their perfect medicine, so please keep it up!

my favorite bud

CRITICAL 707 CBD

EMERALD TRIANGLE SEEDS



Genetics: Critical Bilbo
x 707 Headband x CBD

Indica 80%
Sativa 20%

THC 10%
CBD 11%

Harvest - mid to late September
Yield - High
Stature - Medium

A very high yielding strain, with huge colas producing 500+ grams per metre square.

An easy to grow strain that is quick to produce, flowering in 45-50 days

Adding the Californian 707 Headband to the Critical produces a fuel flavour from the Sour D in the 707's parentage which everyone has grown to know and love.



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strain REPORT

SuperCBDx Seeds Grapefruit x SCBDx

About SuperCBDx Seeds

SuperCBDx believe that, "True Medical cannabis is not about getting high but about improving your health and quality of life."

The Strain

Growing very moderately throughout the vegetative state, this strain does not accelerate dramatically when flipped. Tie-down methods suit this plant well, giving you a greater yield per square foot, with balanced cola production. Expect more yield than regular Grapefruit as the SCBDx genetics have boosted the size and yield of this strain and enhanced the flavor with the extra terpenes thrown into the high CBD mix.

Sex - Fem

Grow Area - Indoors, outdoors, greenhouse.

Flowering Time - 55-60 days

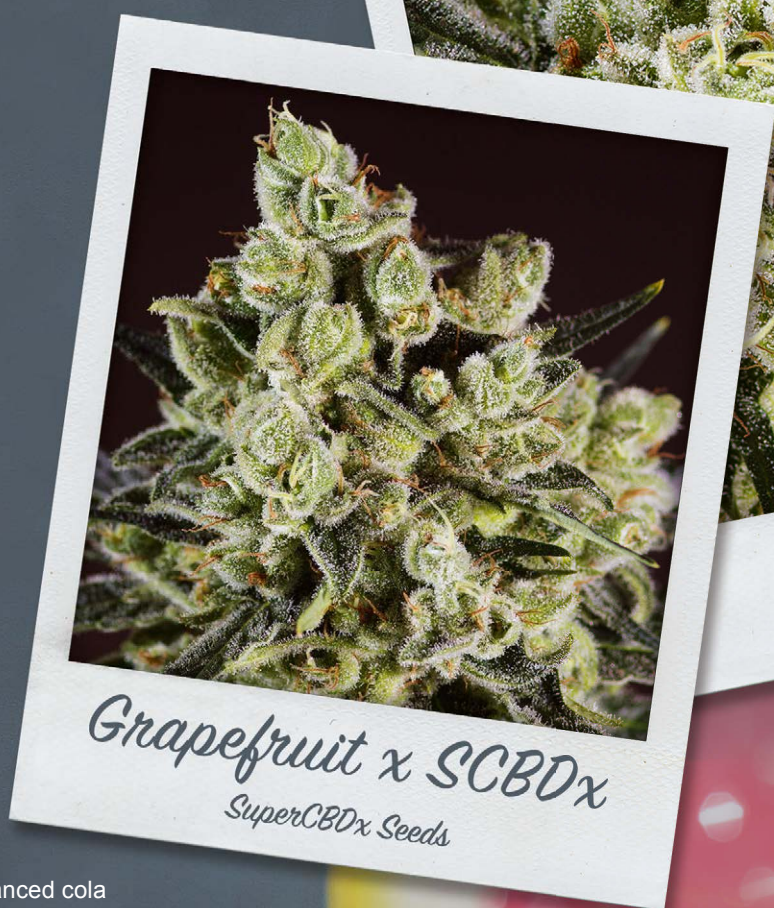
Ratio - 40% Indica / 60% Sativa

Medicinal Level - 100%

Taste - Grapefruit/Pine

Smell - Grapefruit/Pine

Available from:
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weedworld.co.uk





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All of our strains have medicinal value and can help with many illnesses such as depression, epilepsy, psychosis, Huntington's, Parkinson's and Multiple Sclerosis.

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x SCBDx



Diesel
x SCBDx



Emerald Jack
x SCBDx



For more information about illnesses and our full seed selection please visit:

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Companies interested in collaborating, should contact us via info@supercbdxseeds.co.uk.

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WHOLESALE: TANGY GIFTS, BASIL BUSH, SEEDSMAN

Chicle, T.H. Seeds
Find out more on page 98.



Critical Kush Auto (Fem)
CRITICAL AUTO X KUSH AUTO



Blueberry Kush (Fem/Reg)
BLUEBERRY X OG KUSH



OG Kush (Fem/Reg)
OG KUSH



KUSH

C A N N A B I S S E E D S

Cheese Kush (Fem/Reg)
CHEESE X OG KUSH



Critical Kush (Fem/Reg)
CRITICAL + X OG KUSH



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of September



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CBD

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TELLEGRASS

The new generation of Cannabis dealers in Israel

By Ziv Genesove

The Israeli dealers rediscover the Internet and the police are helpless – A special interview with 3 local cannabis dealers.

For the British reader, it might be hard to imagine a situation where cannabis is not available on the black market, but for the Israeli cannabis consumer, this was once a reality that actually hit you from time to time.

Since the birth of the Jewish state in the late 40s, the vast majority of the cannabis supply in the country was generally hashish that got into Israel from the neighboring Arab countries surrounding it, and you do not have to be a great statesman to understand that reliance on agricultural goods coming from abroad is not the ideal condition - especially if the countries that supply the goods are not exactly your allies, to say the least.

Winds of change

Even so, the flow of Arab hashish had been pretty sturdy, but over the years the Israeli army and police force have managed to close the borders for relatively long periods of time, leaving the Israeli cannabis consumers with literally nothing to smoke.

The last time that this happened was about one decade ago, in 2006, when the price of the small amount of hashish that was going around increased by 400 percent - This extreme situation (finally) led to the trend of home growing cannabis in Israel.

The new hobby, along with the rise of the medical cannabis program, had changed the consumption habits of the Israeli stoners - from hash to weed, and more importantly - made them Independent from supplies from the outside.

Slowly but surely, Israel Began to fill up with a generous supply of high-quality cannabis, but since the police policy towards the plant and its consumers remained very rigid, the suspicion among the merchants was high, and many consumers found themselves without a stable supply channel - until 'Tellegras' came and changed the game.

The Israeli craigslist

Using the secure messaging app 'Telegram', which is kind of an anonymous 'WhatsApp', Israelis are invited to enter public trade groups according to distribution areas such as "Tellegrass North", "Tellegrass South", "Tellegrass Center" and so on.

The Community Group is intended for public discussions, recommendations, and suggestions, and the regional groups are intended to view proposals for the sale of marijuana and hashish only.

In these short interviews, 3 of the active traders in the new online trading network Telegraph reveal a little of their point of view on the booming market.

G' offers deliveries to the house doorstep: "Once I even sold to a municipal employee."

"Sometimes I know what strains I sell and sometimes not, it's not fixed," says G', 25, from Ashkelon (a city in the south of the country). "I sell about 40 grams a day to a few different customers. In order not to fall for an undercover policeman, I ask him to send me a "selfie" photograph and his Facebook profile, a driver's license, an ID card. I'm very careful about this and I do not sell to anyone. I offer cannabis for sale at a minimum of 3 grams per transaction, at a rate of 100 NIS (22 GBP) per gram."

"There are all sorts of customers, many of them adults, people with

"There are also women who buy but mostly men. There are businessmen, lawyers. I've never encountered an undercover cop."

families and children, and many young people. There are also women who buy but mostly men. There are businessmen, lawyers. I've never encountered an undercover cop."

"The cannabis comes from other growers that I buy from them in large quantities, so I get it cheaper and I earn something like 20-30 NIS for every gram sold. That means buying at 80-75 from the grower and selling

"The Prices of cannabis will decrease only when there will be no more personal risks. I'm willing to pay taxes..."

at 100-110. There are people who want delivery to the house, so I offer it at an additional cost of 50 NIS, they usually have no problem paying it for the convenience."

P': "We built a revolutionary army - millions are rolling around every day"

"The strains I usually have are Super Silver Haze or Royal Queen," says P', who works in the center of the country. "I buy Silver Haze from other growers, the Royal Queen I grow myself. At the Weekend there is the most activity. You can sell a pound a day if you go to town. Every day it's around 60 grams, at prices between 100 and 120 per gram."

Most of my customers are aged 18-40 and mostly secular men. I ran into women customers here and there, but never into religious people or "Charedim" (ultra-Orthodox). In the matter of caution, I believe in one sentence: 'If there is doubt - then there is no doubt.' The common way to verify a customer and make sure

he is not a cop is to ask him to take a picture of his Facebook profile. If he is an undercover cop he will not leave anything that can expose him."

"My purchase price from the growers varies according to the quantity and quality, usually very good material is sold in the 75 NIS per gram if you take at least 100 grams. Of course the more you take the more the price goes down. Regarding consumer prices, there are dealers who have already lowered prices from one hundred and sell 10 grams at 90 shekels per gram. In my opinion, the price will drop

significantly only when true decriminalization will get here. I've been dealing for years, hundreds of thousands of Shekels rolled in front of me. I covered

all my debts and now I even left with a "bonus". The money does not stop running here. Millions are rolling around every day."

R': "We are here to bring the legalization"

R', 25, from Jerusalem, says: "I have a few different strains in my stock and I try not to exceed 100 NIS per gram. I'd rather grow, but right now I'm buying from growers because the risk is too big. The minimum for every order is 5 grams, and the daily average of sales is

between 70 and 120 grams."

"I'm very careful with every transaction and I try to check all the details. I do not sell to anyone and there were cases where I avoided dealing with someone because I was suspicious about him."

"The Prices of cannabis will decrease only when there will be no more personal risks. I'm willing to pay taxes and sell a gram for 60 NIS. I personally promise the client that the picture I sent him is exactly the buds he receives. I advocate for full openness about the merchandise, I am not trying to deceive anyone."

"It is important for me to emphasize - we are here to bring legalization to Israel. We are willing to sell at cheaper prices and pay a huge amount of tax, we just want to sleep quietly at night without worrying about being raided. At the end of the day - I do not define myself as a drug dealer because I am not a drug dealer."

Mandarin Haze
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This plant is so desirable, you will find all manner of excuses to avoid the tasks of the day, and spend some "high" quality time with this seductive beauty. The height and stretch issues of Mekong High have been addressed by using the smallest but sweetest mother, and reversing a beautiful little Critical Mass.

An overwhelming urge to dance crazily is a possible side effect; these are sexy ladies... Ganj-Nam Style!

Ganj-Nam Style
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Lemon Haze Auto
EMERALD TRIANGLE

AUTO

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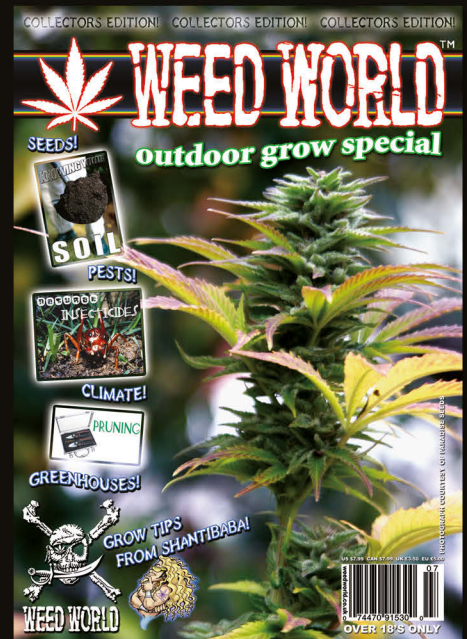
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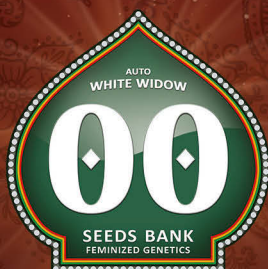
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5 seeds

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BREEDER

In 2001, as a junior in High School in Denison, Texas, an hour north of Dallas on highway 75, I broke my right leg in our very first scrimmage of the year.

WHAT DOES THIS HAVE TO DO WITH GROWING AND BREEDING CANNABIS, YOU ASK?

Starting at age 4, sports were a religion for me. My life revolved around sports: practices, eating right, going to games to watch the older kids, try-outs, late night bus rides home, and dealing with the injuries that came along with that type of lifestyle. When I broke my leg my junior year in high school, I lost my identity. For the first time in my life I could not play sports. I lost who I was, or who I thought I was, in one instant. As a 350-pound lineman stepped on my ankle while I twisted around tackling the running back from my free safety position on the field, little did I know how significant that moment would be for me, and the rest of my life.

The depression and anxiety that came along with my injury was deafening. Instead of spending all of my time at practice, or watching film, I ended up with a lot of free time on my hands. Teenagers with free time on their hands is not a good thing. I started experimenting with drugs more often, taking higher doses and I started to become addicted to the Oxycodone that I was taking for my pain. One of my best friends' moms had cancer, so we had an unlimited supply of Oxycontin and Morphine. Well, years go by, I lose a lot of friends to our lifestyle of partying and doing copious amounts of drugs. I become a Rave/Club promoter in Dallas for a few after-hours clubs and the World Famous Lizard Lounge in downtown Dallas. I also participated in all of the activities that go along with that lifestyle, if you will. It was one of the most fun times of my life, but the toll that it was taking on me would start to become evident around 2005 when my parents told me they were moving to Oklahoma City and I could come with them or stay in Dallas doing the same shit I had been doing for years: running away from my problems, emotions, and fears by doing way too many drugs. I accepted their offer and moved to Oklahoma City in March of 2005 and kind of got my shit together.

I started experiencing a lot of back pain and so I went and had an MRI and was told I had 3 herniated discs in my back and then it was off to the races. From that point forward, I was so addicted to opiate medications that I lost everything that I had, twice. I ended up in a sober living facility in May of 2011. I had graduated to using needles and shooting up heroin since it was cheaper than Oxy. My friends would not even let me sleep in their houses, I was homeless, and one friend would let me crash on a couch he had on his front porch. It was a very sad point, one they call Rock Bottom. I reached out to my mom on Mother's Day 2011 and asked for help and was whisked away to Van's House in Enid, Oklahoma where I lived for 15 months learning how to be an adult. I have 6 years of sobriety now and cannabis is the reason!

Due to my anxiety, chronic pain, and past struggles with addiction, it was very important to me to have a strain that was high in CBD to help counteract some of the anxiety that I get from a lot of Indica strains, which are the ones mostly used for pain. For me, Sativas work better for my pain and anxiety, especially Sativas with higher CBD. Once my wife got out of the Air Force, we moved straight to

"I found that quality cannabis seeds were out of a lot of peoples' budgets, and mine as well."

Colorado and I set up a grow within 30 days of moving. I was very fortunate to meet some extremely knowledgeable and experienced mentors shortly after moving to Colorado. I found a great grow-shop called Green Rooster that has an employee who would sit there and talk to me for hours at a time, while I picked his brain, and he never once complained. Using social media forums and groups are also a great resource for finding all kinds of information on growing, cultivating, consuming, and breeding Cannabis. So, I put my nose into as many articles, research papers, grow forums/groups, and videos that I could find. I asked a million questions to everyone I knew that grew, and over a short amount of time things started falling in to place.

My background is in Sales/Marketing/Advertising/Promotions as well as Healthcare. I was a Pre-Med student in college and am also a licensed Medical Assistant and Phlebotomist. I have always felt pulled to work in the Health Care field but always had roadblocks come up due to a felony that I got when I was, you guessed it, in high school after I broke my leg! Roadblock after roadblock has kept me from pursuing my career in healthcare and then one day it hit me: my role in health care is supposed to be with Cannabis, and I'm supposed to create medicine for specific conditions to treat those who are suffering and have lost faith in the traditional system.

I got into dealing with Cannabis Seeds by accident, really. Larimer Seed Co. was founded out of necessity. As a medical cannabis patient getting into growing my own medicine, I found that quality cannabis seeds were out of a lot of peoples' budgets, and mine as well. Using social media as a platform for trading, I was able to create a pretty decent collection of genetics and started using them to help low-income patients and veterans gain access to a way to grow their own medicine. I also started taking donations, in order to sponsor cancer patients so they could start RSO treatment. Out of three of the patients we have sponsored so far, **ALL THREE ARE CANCER FREE NOW!** From there, our reputation grew, we found extremely loyal supporters, and off we went!

Almost 9 months later and here we are. I have made it my mission to change this

industry and hold it accountable for the products that it puts out, especially when it comes to peoples' medicine. Larimer Seed Co. promises to ALWAYS put Patients' health, safety, happiness and well-being above profits, PERIOD! We are so very grateful for the loyal base that we have established and hope that our reputation continues to precede us. It is our mission to provide affordable, quality genetics to the everyday home grower, the intermediate grower or the Master Grower. Due to our very strong connections and friendships in the community, we are able to provide customers and patients with prices much lower than the big boys. I have been truly humbled by the support, love, respect, and trust that the community has put in to me and Larimer Seed Co. It truly is remarkable what can happen when our community decides to come together and support something.

My very first release is Golden Healing. Golden Healing is Sense of Healing CBD by Solace Meds in Fort Collins, Co., crossed with Swazi Gold. Sense of Healing is a true 1:1 and tests right around 10%THC and 10 % CBD. We used Sense Of Healing CBD as the mother for Golden Healing and the father is an African Landrace, 100 % Sativa, called Swazi Gold. Swazi Gold is found in Swaziland north of South Africa. It is a very hardy and disease/mildew resistant strain. Merging the genetics of these two wonderful varieties worked out fantastically! You get a nice plant, easy to LST, resistant to powdery mildew, (which is a huge problem in Colorado for some reason,) great terpene profile, and a medicine that is perfect for melting away stress, anxiety, and an achy body. The flowers are a little larfy, which comes from the Mother's genetics, so the nugs are not very dense, but the quality of medicine makes up for the lower-than-average yield. You can expect to get 300-450 grams per plant under 1,000 watt HPS. Make sure you have a tall enough ceiling, because Golden Healing likes to stretch due to the Swazi Gold traits. Outdoors, Swazi Gold can reach heights of over 15 feet!! Golden Healing CBD will finish around 75 days, 6-10% CBD and 18-22% THC. You won't be disappointed.

One of the most exciting things that I am working on is a project with some 45 year old genetics that were found in the





"I have made it my mission to change this industry and hold it accountable for the products that it puts out; especially when it comes to peoples' medicine."

ducting of a home near the University of Virginia campus during a remodel. I am working with @RedofTGA on this project and we have some very cool things happening behind the scenes, as well. I would love to go in to more detail, but stay tuned for an article on the project in the months ahead.

One of my favorite things I am working on is my Purple Urkle X Cannatonic. I got a Purple Urkle cut from The Denver Clone Store and she did not let me down! During flowering, about 2 weeks before harvest, she started getting pink pistils that were spectacular. I had never seen anything like it, and neither had a lot of the people I showed pictures to. With my Purple Urkle X Cannatonic, you can expect a surprisingly uplifting head high, with a comedown that will leave you relaxed and ready for bed or a nap. She's not too strong, coming in around 14-16% THC, so she is perfect for a toke to finish a project before bed, without being too blazed, and it lasts just long enough to let you down easy so you can melt right in to your pillowcase.

Another one of our projects, that has a lot of other people excited is my Nordurt Super Auto X Blueberry Auto. Nordurt hails from the Lejuene hippy commune

in Denmark. It is an outdoor cultivar with a main terminal cola the size of some peoples' hamstrings, seriously. For an autoflower, whether a super or not, this thing has massive colas! It is a sativa-dominant hybrid of some kind, the makings of which I know nothing about, unfortunately. I used the Blueberry Auto male in hopes of shortening the flower time and hopefully to make it fine for indoor growers. When seeded, she produces thousands of seeds on a plant only 4ft tall with 5 large colas. I actually topped the first 2 female Nordurt that I grew just to see what would happen if I topped an autoflower that wasn't a normal autoflower, if that makes sense, and boy was I rewarded! Instead of 1 terminal cola, I ended up with 5 large ones and 3 smaller ones. She did NOT like LST and probably would not work well in a SCROG set up. Her profile is very berry, with a diesel undertone. The smoke is smooth, if flushed correctly, and the high is extremely uplifting. If you have chores to do, then a few puffs of this will get you right to work, with no complaints, doing the Tom Cruise slide in your underwear and socks!!!

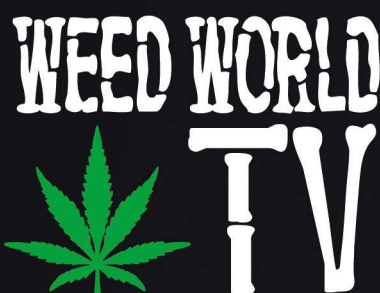
My company, Larimer Seed Co. has really taken off over the past few months. We also believe in supporting local,

small, and medium sized Genetics Programs and bringing the best Genetics in the world back Stateside. If you are a small or medium sized breeder/program, please get in touch with us, we would love to talk and see what you are working on! We have started a Subscription Box service that is starting to really take off. We found a gap in the market and decided to fill it. So far, it is working out very well.

We are still seeking Beta Testers for our Subscription Boxes. We are looking for feedback on designs, the quality of materials, shipping speed, and the genetics, of course.

Larimer Seed Co. really is the change that this industry needs, and we promise to deliver compassion, kindness, care, respect, and responsible practices to you each-and-every day, month, and year that we choose to do this.

Please like and share us on social media. You can find us on Instagram @LarimerSeedCo or on Facebook @LarimerSeedCo. Our website www.LarimerSeedCo.com will be up and running very soon, so stay tuned! Also check out our partner site, GreyBeardSeeds.com



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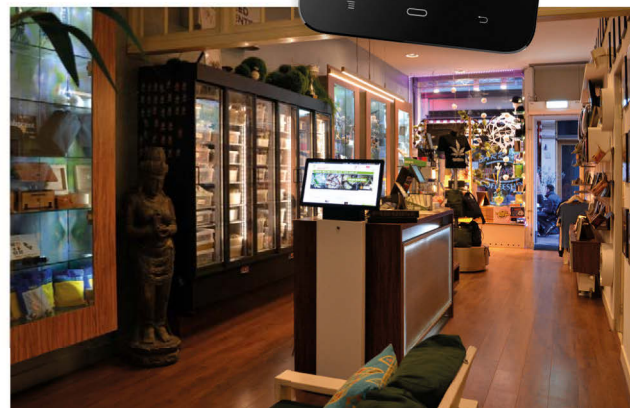
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Stoned Productivity

BY FRANCISCO

For a long time, cannabis has been associated with unproductiveness and laziness and since the 30s society has developed a very specific stigma for stoner. The unemployed couch potato has always been the perfect example when educators talk about cannabis.

It's a given fact that the endocannabinoid system is directly related to the release of dopamine in the brain. Cannabinoids increase the flow of dopamine by blocking off the function of another neurotransmitter, called GABA, but the real stigma relates not to the chemical reactions of the plant but what this implies on the consumer's behavior and how he/she functions according to society's "standard conduct".

A study¹ that followed seven men found that productivity decreased when marijuana was easily available and continued to decline as consumed quantity increased. As soon as access was cut off productivity went back up. This is essentially the trend found in most reports.

But the real argument lies beyond what results the study yielded. These seven subjects were assessed under a micro-economical system within a high security hospital. Is this really the best environment to test any recreational drug? They analyzed the time each patient spent working as a demonstration of productivity. The researchers saw that patients spent more hours working while off cannabis than when they had access to it.

This is a very specific set of conditions to test such behavior. Could a real-world application be drawn from this information? The test was done for time spent working and not efficiency, however there was no test done to verify the quality of their work. Efficiency and efficacy are two very distinct factors that contribute to productivity. One might argue that one is more important than the other, but the truth is that it will always depend on the job. If the job is factory-based, then efficacy is more important, while if the task is more creative and less tangible, efficiency is more relevant.

Research² has also shown that marijuana's negative implication on factors like attention, memory, and learning can last for days or weeks after consumption. It is all dependent on the person's history with the substance and obviously on the person and quality of the drug itself.

The "stoner" stigma does not help. When consuming

cannabis, what every person will relate to is what they see other consumers do, and what they often see is shown only on movies and in TV series. Very few productive and intelligent stoners have come forward with their habit and cannabis routine. If media portrayed cannabis smokers as efficient and motivated, maybe we would see more working consumers. Currently, when taking a few puffs, each person will think they should be feeling lazy and they will do so, even if simply by the placebo effect. Marketing a drug for lazy people will obviously attract them. Giving people a reason to feel satisfied with their unproductive ways because they're high is misleading and unfair for those who don't want to be associated with this.

There is still a lot to research and find out about cannabis. Would the results of the studies above be different if the subjects had been artists or athletes? Would it be different if the activities had been related to social interaction or brainstorming? There never is a test that considers every variable nor is there one that can be applied to everyone in the world. Cannabis is certainly not the best option for everyone, but there might be certain individuals who benefit from it.

Alex Walker, a professional gamer, on an interview for Gameplayer, said: "I've seen a number of players at national tournaments who came in 'baked' purely so they could play better."

This has now been made prohibited by the Electronic Sports League (ESL) and athletes are only allowed to smoke after their games. This proves that the sole reason for prohibiting weed at these events is because of how cannabis is considered a performance-enhancing drug in such a scenario. If cannabis had been authorized, this would motivate every single athlete to consume it, even the ones who previously didn't. This would not be healthy for the players and so the organization's decision was more than fair. If gamers take advantage of ganja for their professional improvement, could this be an option for more conventional jobs?

When studying for the effects of cannabis on ADHD patient's productivity, the study concluded: "There was evidence, that the consumption of cannabis had a positive impact on performance, behavior and mental state of the subject."³ But this is in people who have a previous condition that cannabis seems to help normalize.

Not many studies have been done on this issue but a study⁴ has initially linked cannabis to enhanced creativity but the same study also concluded that further research is necessary in the field of enhanced productivity with

cannabis. Further research seems to be something that all studies agree on.

Many artists, athletes and creative individuals, have attributed some part of their success to their consumption. But people in a standard 9-to-5 and how they can benefit from a few puffs during the work day is a subject with very little information on. With scarce authorized research on cannabis, these more in-depth issues will take time to even be considered for larger samples and more extensive studies.

If you really want to hit the bong before answering your e-mails just make sure you do it the best way possible. There will never be a perfect strain or time for every person but researching the best strains for motivation and testing which ones works best for you, is a good start. All research shows that if you're going to work while high, choosing sativa strains is the best way to go. But you also need to know how much to consume. Next time you decide to tok ask yourself: how much is too much for the task I'm doing? Take a real honest look at yourself and

your functionality. Each case will be deferent and the success cannabis has on you will depend on how true you are. Many people in Silicon Valley are micro dosing LSD. This does not mean they are constantly high on acid while coding, but it means that they take advantage of the creative benefits of LSD without taking enough to make them trip out.

My advice is to try out CBD-dominant strains

if you have access to them. Try the relaxing benefits of the herb without getting stoned. Everything for now is up to your personal research and opinion.

No one has the right to judge you on whether or not you should smoke during your productive hours. It's your choice to do this or just do so when relaxing at night before bed. The only thing that we were able to conclude was that there is not enough research to back up any opinion. There is still a lot to know about cannabis and its effects on the human body and mind. It might be adequate for certain people with certain occupations but it might not be right for you. It's still up to you to discover your answer, good luck on your journey.

1 <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-0773.1974.tb03315.x/abstract>

2 Schweinsburg AD, Brown SA, Tapert SF. The influence of marijuana use on neurocognitive functioning in adolescents. *Curr Drug Abuse Rev.* 2008;1(1):99-111

3 Peter Stroheck-Kuehner, Gisela Skopp, Rainer Mattern. Cannabis improves symptoms of ADHD. *Cannabinoids* 2008;3(1):1-3

4 https://www.ocf.berkeley.edu/~issues/articles/18.2_Talise_J_Marijuana_1.html



BEWARE THE RIPPER

This is the story of Jack the Ripper and it is a fine example of what can happen along the way during a breeding project.

By Subcool
tgagenetics.com



I have always wanted to have Jacks Cleaner in seed form. I have been prompted to 'Self' her using STS, but I don't believe in that type of breeding because I feel a male plays a vital role in breeding projects. About 6 years ago, I used a Blueberry to outcross the Jacks Cleaner and Bushy Old Grower used some of these seeds to create the famous Lifesaver. Two years ago, I used the Jacks Cleaner x Blueberry to back cross the Jacks Cleaner and created Jacks Cleaner back cross (JC BX). Lost yet? I'll try and untangle this mess as we continue on this journey.

Even though the JC BX kicks ass, has won awards and is used in breeding projects it was not what I was looking for. Also, around that time I ran with Vic's Space Queen and found it to be some of the best weed I ever smoked. We also found an amazing Space Queen male that Jill used to create Jillybean and we used to create Spacejill. It was not an easy decision, but we decided after working with Space Dude he was a much better choice for a parent to outcross Jacks Cleaner and re-started completely over - passing on the Jacks Cleaner back cross and Jacks Cleaner Blueberry to other members of TGA.

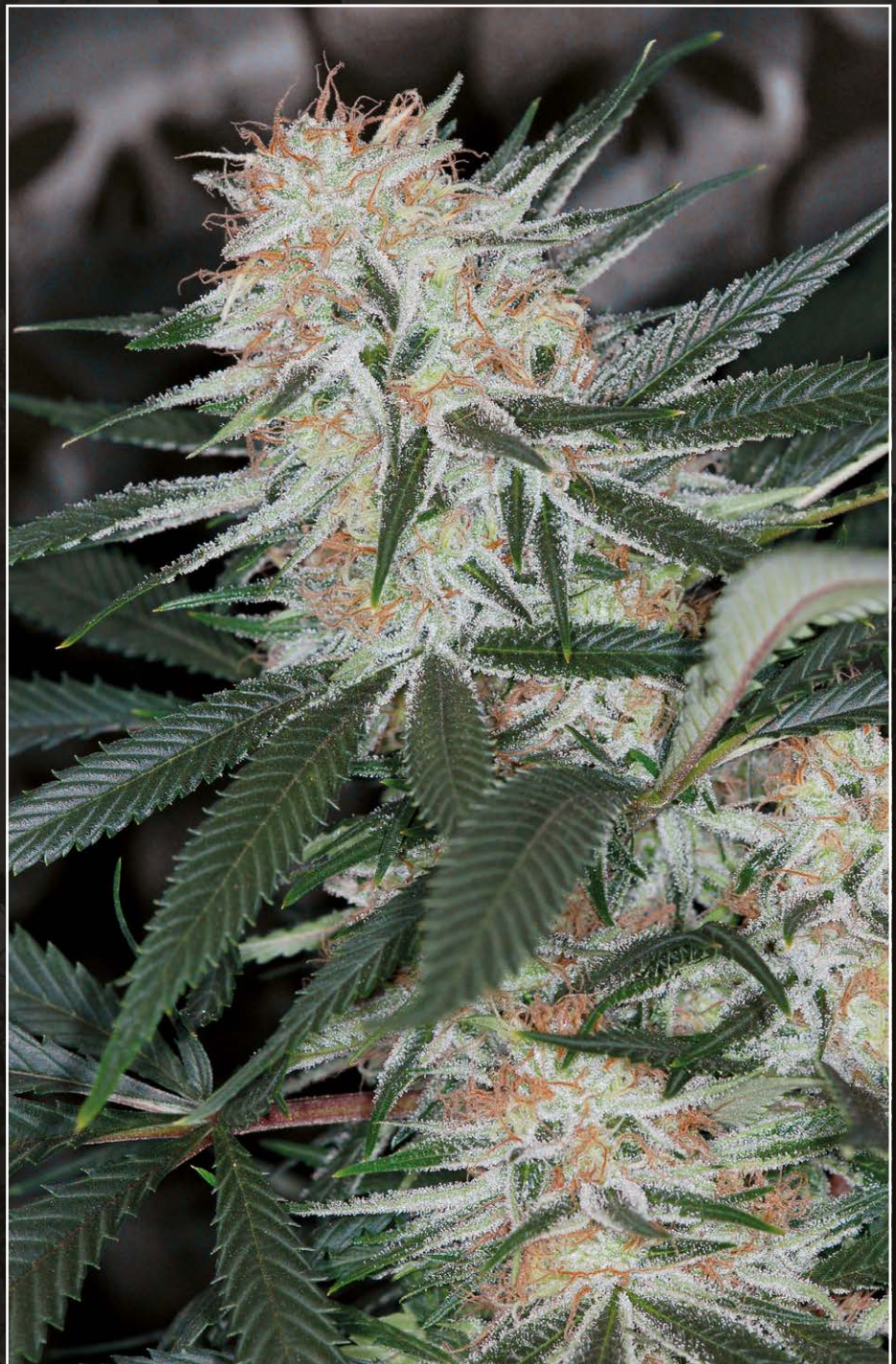
We used our standard breeding methods and completed the project on schedule and promptly started a test run of these new seeds. One weird trait of this new hybrid is twin seedlings. Many growers have reported duel sprouts from one seed but it's normal for one not to survive when this occurs. All the seeds were started using rapid rooters with no pre-soaking (I like to be as rough as possible and I never pamper test runs). Once seedlings came up and developed nice roots I transplanted them into 1 gallon containers and placed under a 400 watt Metal halide light. Once the plants matured the males were taken to a separate area and the best possible females were tagged and the rest tossed. We ended up with 3 females we felt met our selection criteria. The plants were topped and trained and vegged for about 45 days and reached a size of 24" with multiple growing heads.

Once in bud the plants quickly started swelling with fattening buds and by day 25 copious amounts of resin had become visible. Things got interesting when we had visible resin at just 2 weeks of budding and by week 3 we had a nice build-up of trichomes and the first hints of the Lemon smell I was looking for.

One of the female plants stretched so much I had to bend her severely to keep her close to equal to the rest of the crop. Even the lower buds dripped with resin and I am happy to report the

mango lemon smell I was looking for was absolutely nailed. Normally I top all plants in our garden but with test plants it takes up less room if I leave

them un-topped (and as I am usually moving them about a lot taking pictures and such it just makes them more manageable).





You can see in the picture the plants developed nicely, grown in only my own super soil in a 5 gallon pot and fed only water the entire run to test her natural ability to produce without being pushed. You can see the results speak for themselves.

Maturing much faster than JC was another hopeful goal and at 50 days I'd say we nailed that trait as well. All three females were alike with the exception of the height of the one female. To avoid numerical confusion we gave each female a name. Lemango became the tall one that looked more Space Queen dominant. Soylent Green was apparently the largest of the three as far as cola size and the plant most resembling Jacks Cleaner with her predictable resin leaf curl was given the name Pink Lemonade. This is the plant that became the star during multiple sessions in front of my lens.

The trichome production is off the chart and she has the classic raised head on a tall stalk that's so classic of JC. I feel this represents the total sum of what I've learned and collected doing this my entire adult life. To be able to pass on traits I have seen attributed to the mother plant and then to actually create a phenotype with the same qualities and maybe even some improvements is truly humbling. The plant has pink resin, ok? I mean would you be happy or what? Now I have a gene pool to work with and continue the cubing of the original Jacks Cleaner F1 to produce a more stable line but variety is the spice of life among tokers and each of the females we found is a legendary keeper in itself. I enjoy each plant's smoke equally but there are subtle differences that make it nice to choose a preferred one according to my needs at any given time.

I think the best news about this strain is that they're available now. We have a lot of cool things, from tasty to pretty, to sativas to crazy combos of berry and lemon, but I'm taking this to the pot snob's party. Let's have a look at the end results: Lemango was more Space Queen-dominant and has a nice citrus and fruit taste as her name implies. Soylent Green did indeed yield the most, coming in at just over 2 ounces of cured dried bud. She has a nice lemon/berry taste that is my favorite in a joint due to it having a much smoother draw than the parent JC. Finally, Pink Lemonade is the most potent and most like JC. Incredible expansion as all the resin melts away on the bud and your lungs simply explode and your head follows shortly after, it only takes 3 bong hits to make me smile like a Cheshire Cat.





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TGA strains are used to ease the suffering of people worldwide from pain, nausea, tremors, nerve pain, anxiety and social disorders. We do not believe in short-cuts such as feminizing seeds or creating auto-flowering strains by combining low potency ruderalis with common hybrids. Instead, it has taken us a decade just to perfect our flag ship high THC-V strain *Jack the Ripper* and our Cup Winning strains *Vortex* and *Jillybean*. We are a strong supporter of charities helping people in need.

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Our medicinal strains are very fragrant and have heavy resin producing traits and are valued by many breeders for the unique smell and taste. TGA's Strain Guide offers one of the most accurate and in depth product descriptions in the industry compiled by thousands of growers in our "Open Source" method. Our group of dedicated, passionate breeders' contributions have truly helped put TGAgenetics where it is today. Just "good" isn't good enough for us or our valued and very loyal customers.

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Music & Commentary





STRONG ROOTS SURVIVE

BY ALLISON EDRINGTON

WRITER & FOUNDING BOARD PRESIDENT
OF THE HUMBOLDT CANNABIS CHAMBER

HERITAGE HUMBOLDT FARMERS SHARE THEIR BEST TIPS AND ADVICE ON TRANSPLANTING AND UP-POTTING SUCCESSFULLY

Known internationally as a top cultivator and propagator, Kevin Jodrey is a master gardener who runs Wonderland Nursery in the epicenter of California's craft cannabis community: Humboldt.

Jodrey shared his best practices for selecting genetics with Weed World for Issue 128, and he saw an opportunity to share Humboldt's heritage farming practices. We plan to look at each step of the cultivation process, one by one, and tap into Humboldt's knowledge base of experience and study.

Last issue, Jodrey and I collaborated to speak with farmers and scientists about their secrets for building healthy soil like the Emerald Triangle does. Once the soil is prepared, the seemingly simple task of transplanting is next. Kevin and other Triangle farmers share their best practices and the biggest misconceptions about planting.

Chat with just a few farmers in Humboldt about their craft, and one word you'll hear over and over again is "steward." The Emerald Triangle perspective is that farmers are there to give their plants the best scenario possible -- the plants actually do the hard work of growing. Farmers plan to minimize stress on their crop at every step so the plants will focus on fully expressing their genetic potential.

What's a bigger source of stress than change? Transplanting is a time when farmers will either ease plants into a new environment, or not, Jodrey said. "Planting cannabis, though seemingly relatively straightforward, there are

Dia Damon carefully waters the 65 gallon Grassroots shorty pots on the windy terrain of Port Royal in Humboldt County.



some considerations that have to be met for the ability for the plant to make the transition from one size or one media to another."

WHEN ARE CLONES READY TO UP-POT?

The shelves of Wonderland Nursery are home to trays of perky clones in 1-inch cubes, affectionately called "babies" by the staff. These cubes are the foundation of many California farms, including Jodrey's, but the root can't stay in that size pot for long. "You have the ability to take a plant and up-pot it, but you want to make sure the plant has an adequate



system before you do," Jodrey said.

Jodrey transitions his clones as they are ready to 3.5 inch pots, and then later to anywhere between 1 or 5 gallon pots in the initial stages. From there, once the roots have developed further, they are transplanted to 65 or 70 gallon pots. To eventually fill 400 gallon pots, a 5-gallon root ball will be needed. He said he knows the clones are ready to make that initial jump to the 3.5 inch pots when roots are protruding from the cubes, but not more than a ¼ inch outside the exterior.

"The misconception is the roots that are hanging out of the cube are actually

going to live and work, but the truth is they don't have the right epidermal layer. They don't actually do anything unless they are put into the same exact situation," Jodrey said. "If you're cloning into perlite and water and you have this incredible root system, and you went right back into perlite and water, it would be ideal. But if you go from perlite and water to soil, none of those roots will really work because they don't have the exterior surface to deal with this. They're going to have to form new material to move forward."

With the high aeration media available, Jodrey said he allows physics to help him farm. "When we go from field

capacity, which is a fully saturated media under gravity, we allow it to dry out to no more than 40%." Dry farmers also use physics to their advantage, he said as the water table below the surface rises and falls to wet the soil. "As that 40% of water is removed from consumption, it leaves void space that must be filled with something because it can't be vacuous. It's filled with air" that helps build the root system rapidly. He keeps the pots anywhere from 60%-100% wet and doesn't rely on root enhancers or other "band-aids" to build the roots.

"If we balance the size of the pot with the size of the start, we can get it to go through multiple wet-dry cycles in a



faster period of time, and it makes the plant go through faster rooting cycle because I keep pulling more air into the media. More air, more root," Jodrey said. Then it can move into a bigger pot -- just don't let any pot get below 60% saturation. "Otherwise I put a 3.5 in a 400, and what I get is that it's going in there rooting but I'm not getting any oxygen being driven in from the surface, so what I have is an anaerobic condition."

Other farmers take their plants in even smaller steps. The people behind Nomad's Landing -- master gardener Dia Damon and second-generation micro-farmer Spencer Damon -- have a decade of experience growing award-winning cannabis in Northern California. They create natural farming inputs in Mendocino County and work with farmers directly.

Nomad's Landing's transplanting schedule takes the crop through smaller steps: from 3.5 inch pots to 6-inch, half-gallon, and then 1 gallon pots. Making more gradual transitions reduces the amount of water and nutrients the pots require. The Damons said this also manages the density of the root system, and they are mindful of how long the plants stay in each size pot. Otherwise they said they risk their crops becoming rootbound.

"That means roots have overtaken all of the soil," Dia said. "Roots have grown outside of the pot or back up into the pot." Spencer added that a good example of rootbound plants are the discount veggie starts you see outside of stores. Starts from zucchinis to strawberries will be marked down because they have sat too long and become rootbound, meaning the eventual harvest will be significantly less.

"I personally like to transplant every 28 days, whether I see roots or not. It's a good signifier for me," Dia said. "Unless you're going from a 1-gallon to a 10-gallon, then it's 2 months."

Indoor techniques require fewer transitions, though the process works similarly to outdoor, according to Jennifer Bruce of Sarkana. Bruce has been farming cannabis in one way or another for more than 20 years, primarily in Humboldt, and her current indoor farm produces a clean source for her lines of infused edibles.

"I generally use little peat moss plugs, and they go up into the 4-inch containers into soil," Bruce said. "Then once those are rooted, for indoor I only transplant

them one more time into 7 gallons of organic soil [in reusable smart pots]. Once the vegetative cycle is done, I put them to flower and they remain in the 7 gallon pots for the full 2-month cycle."

STARTING FROM SEED

Once seeds establish adequate root systems, they are treated like clones as they are up-potted, Jodrey said. His suggestion for starting seeds is to pre-imbibe them with liquid. Soak them well, lay out on paper towels that are also saturated, insert into large Ziploc baggie, blow air into it like a balloon, and seal. He then places them on a heating pad at 78 degrees to activate the enzymes.

The processes begin metabolically, and Jodrey said he carefully pulls these pre-emerged seedlings and places them in potting media. His rule of thumb: if we used a 5" deep container, start with 1" and add media as it stacks so it roots advantageously through its stem so the entire pot is a root ball.

WATERING AND FEEDING PRO TIPS

How do you know if you're watering your pots enough? The Damons have a few easy ways to tell. Typically they prefer to use a water gauge to ensure the moisture level doesn't dip below 60%, but the simplest is just a quick lift check -- "If you can lift the pot up, you need to water it" or if the soil is dry down to the second knuckle of your finger, Dia said.

Soil contracts away from the edges of pots as it dries, and Spencer said they add additional soil to fill in the gap to save on water. They have noticed that this prevents water from going straight to the bottom of the pot and offsetting the soil and water balance.

"You always want your soil to be like a moist sponge. Not soaked," Spencer said.

For the initial transplant into a pot, Jodrey emphasized that soaking the soil in the pot just a little more than the plant that is being transplanted will help tremendously. If the imbalance goes the other way during transplanting -- the plant root ball has less water -- the pot's soil will suck all the water from the plant. Indica varieties tend to trigger more easily when younger, and Jodrey has noticed that cloth bags seem to create less stress on plants than plastic pots.



Transplanting in progress at Port Royal in Humboldt County.



Clones that have been transplanted into 3.5 inch pots at Wonderland Nursery.



Healthy "baby" clones started in 1-inch Oasis cubes at Wonderland Nursery.



All of these measures are in the name of preventing die off during transplant, and watering indoor transplants follows similar practices. Bruce said the number one cause of die off she has seen from inattentive workers is failing to actually water the plant's roots. Instead, they accidentally water the entire rest of the bag, except where the current root system actually is. Water and nutrients need to be where the actual root systems are, she said.

She uses room temperature water on young plants so the temperature change doesn't shock them, and she uses half strength nutrients. Then it's a matter of packing the soil to ensure no air pockets are present and waiting for taproots to establish. "You can tell because your new leaflets should pop out once the tap roots are established. If they don't, then something's gone wrong," she said.

MULCH

Want to prevent water loss and keep the temperature of your soil from spiking? Mulch is a favorite answer amongst Humboldt outdoor growers. Jodrey describes this as any material used to protect the upper layer from sunlight.

"It's exceptionally important in organics because the mycelium layer is at the surface layer and just like outside, naturally occurring, we have this fungus and bacteria on the soil, and hummus falls on top of it, fungus and bacteria break that down and drive it like fingers into the soil," Jodrey said. He uses GroKashi, Boos Blend, and rice hulls as his mulch. The Damons are also advocates for mulch as a water retention tool.

TIMING AND TEMPERATURE CONSIDERATIONS

When is the best time to transplant outdoor plants? Just after the New Moon, early in the morning -- Jodrey said the increasing light hours created by the moon help to keep indica varieties from wanting to go into flower. This is called the waxing period.

To determine if a plant has entered flowering stage, Spencer Damon suggests looking at the number of fingers in the leaves. "Once it goes into flower, it goes back down from 7 to 5 to 3. You lose 2-3 weeks of vegetation time," Spencer said. "When they go into flower so early, you end up with all those little nodes and having to clean up all



The protruding roots Jodrey points out in the 1-gallon pot shows strong root growth and that the roots are ready for more material to grow into.



Jodrey holds a plant from a 3.5 inch pot at Wonderland Nursery, readying for transplant.





these little sucker plants. You also have more trellising because you have little branches poking out everywhere.”

Humidity is also a factor when moving plants into different environments, Jodrey said. “When you have plants that are in humid conditions, their stomata are fully open because there’s no worry about desiccation at all,” he said. “I might be from 60-70% humidity in a veg space down to 15% outdoor. The change is so radical that you transplant early at dawn, and that will give you 6 hours for the guard cells to start to close up a little bit and let these plants accept it.”

Jodrey suggests keeping an eye on your soil temperature once the plants are outside, too. The surface of the soil can heat up to over 120 degrees F and it can get over 150 degrees F in a black grow bag. Black plastic pots can be wrapped with burlap or other materials to reduce how much heat it absorbs. They can be unwrapped at the end of the season when it is cooler, Jodrey said.

In exceptionally windy places, Jodrey has found he needs to give plants more water than normal but only at the root ball itself. Inside, the soil ball actually dries out. “It’s asking for water so badly that it just drains it right out of that and it never gets into the media around it. You have to give it a couple shots from the top to keep the ball wet so the roots can get in. On really windy operations, we use an organic foliar calcium from Cutting Edge Solutions and an organic 12-0-0 amino acid protein from Grower’s Secret while I’m going through transplant in the first couple weeks. Calcium for cell growth and nitrogen let’s me create sugar to put root tissue down.”

Windy conditions also means that he has to adjust his own expectations, Jodrey said. “As the roots fully bite in and the plant goes, in windy outdoor situations, you end up having a plant that looks kind of raggedy for the first couple weeks of the transplant until all the new growth pops up and you now have a plant that is acclimated and ready for that environment.”

Transplanting in any conditions has its risks but the stewards of cannabis in the Emerald Triangle know it’s also an opportunity to help the plant reach its genetic potential. The care and craft that goes into just this small component of the season is what helps set Humboldt’s farmers -- and their harvest -- apart.

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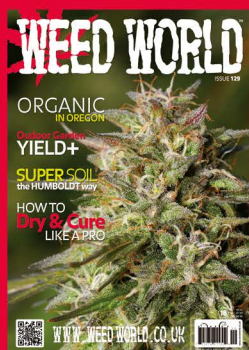
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strain REPORT

Big Head Seeds Trippy Gorilla Auto

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I can see why I'd forgotten it – I'm sure there was a sequel....let's hope (or not) I remember by the end of this. But you didn't come here to read things worse

than in a cracker or on an ice lolly stick....perhaps we need to put jokes in skins or would that added chortling (or groaning) cause to many a spill? Answers on the back of a postcard, please.

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What do you call a gorilla with an automatic with bananas in his ears? – Anything you like he can't hear you!

I'll get me coat.

Type - Indica/Sativa

Environment - Indoor/Outdoor

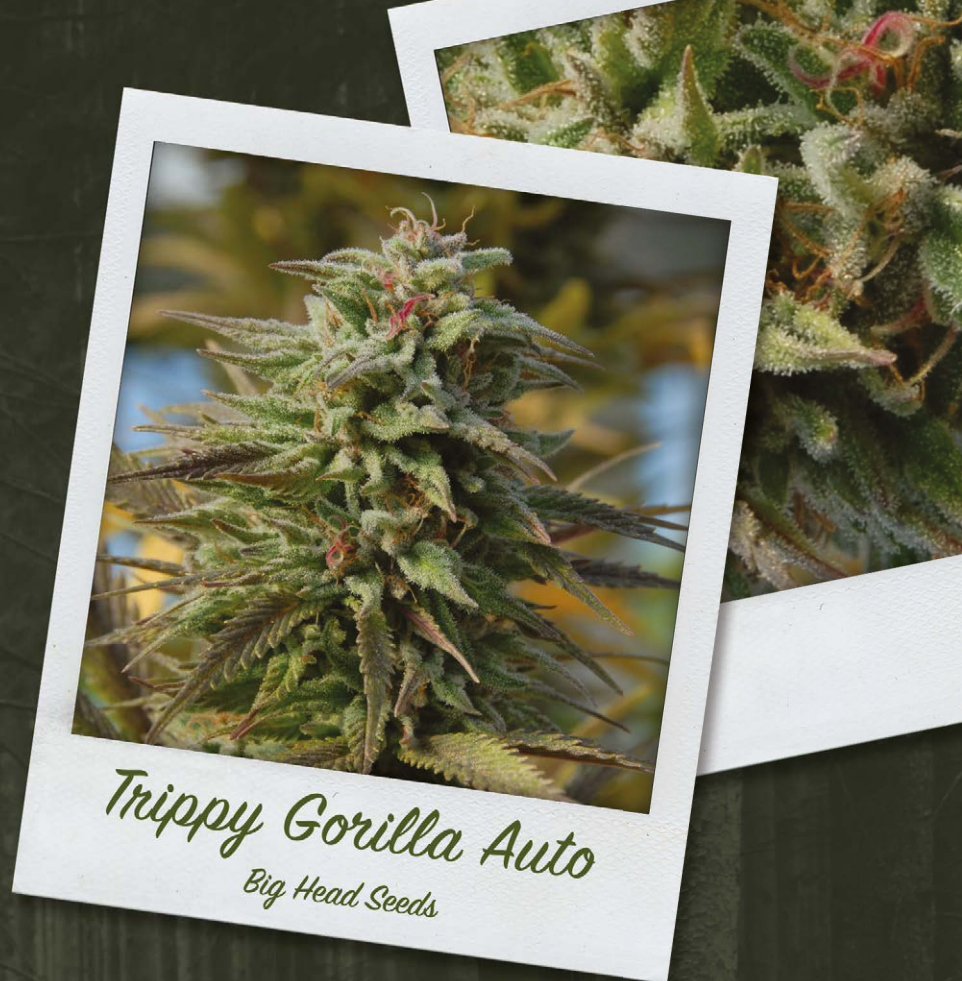
THC - High 20-24%

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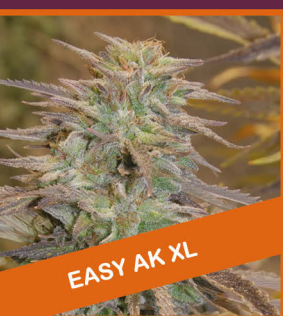
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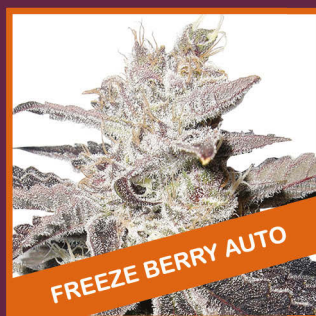
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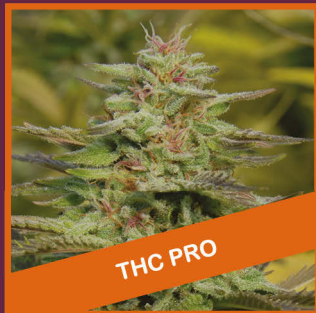
FREEZE BERRY AUTO



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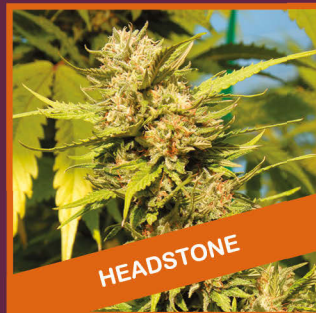


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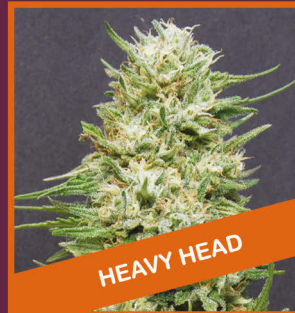


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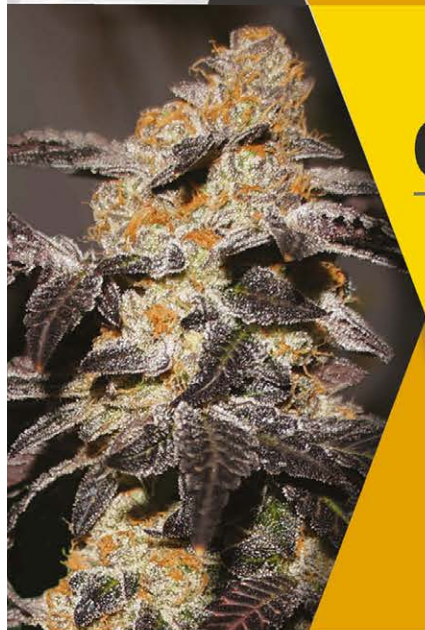
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RECREATIONAL RECTAL USE OF CANNABIS

(OR, WHAT I DID FOR SCIENCE)

By Sensi Seeds | sensiseeds.com

The scientific and anecdotal reports on rectal cannabis use are somewhat conflicting. Sometimes, the best way to research something is to do it yourself. For science, for Sensi Seeds, and for journalistic integrity, I tried a cannabis suppository and wrote about the results.

Recreational rectal use of cannabis is not a subject I've ever heard discussed. Vocal proponents of every other kind of cannabis ingestion can be found everywhere, from internet forums and international hemp fairs to coffeeshops and any given living room on a Friday night. The subject of savoring a potent high by inserting suppositories, however, has not been broached (at least with me). Is rectal cannabis the last taboo of recreational use? Does it even work? There was only one way to find out.

Step one: Get some suppositories for recreational rectal use

These are not a product that you can buy in a coffeeshop, nor a pharmacy, even in Amsterdam. Luckily I was able to obtain some (from a source who wishes to remain anonymous). They were made from butane extracted whole plant concentrate in a base of coconut oil, giving them a pleasant, almost chocolatey smell, rather like spacecakes. I had them tested and the results showed 16% THC and 1% CBD, which would definitely give a psychoactive effect if taken in any way that I was familiar with.



Having procured cannabis suppositories, our preparations were twofold: the classic 'set and setting'. The former consisted of research. I found practical tips, including 'lie on your side and bend one leg to make insertion easier' and 'don't pass wind for at least 15 minutes afterwards'. I found anecdotal reports: "For me, music starts playing in my head about 1 minute after 'dosing'"; "Within minutes I could feel a warm, pleasant sensation washing over my entire pelvic region". And I found science which said maybe it shouldn't work at all.

What is the science behind rectal use of cannabis?

According to Allan Frankel, MD, who has researched and written about rectal absorption of cannabis, nothing was felt by his test patients when they tried cannabis oil in cocoa butter. Analysis of their plasma revealed negligible THC and CBD levels. According to Practical Pharmaceutics: An



International Guideline for the Preparation, Care and Use of Medicinal Products, the rectum does not absorb fats efficiently. Any active substance in a suppository must first dissolve into the aqueous mucus that lines the rectum and then pass into the bloodstream; it cannot be absorbed directly by the membrane without traversing the aqueous mucus layer. Therefore active substances that are themselves lipophilic (such as cannabinoids) should not be combined with a fatty or oily carrier, as this will reduce their overall absorption. Since virtually every cannabis suppository I found mentioned online was in a fatty base (as was mine), this should have impaired their efficacy.

Assuming that some of the cannabinoid content makes it through the mucus, it then circulates either via the inferior and middle rectal veins into

the inferior vena cava, bypassing the liver; or via the superior rectal vein to the liver where it is 'first pass' metabolized. It was thought that the lack of psychoactivity resulted from THC missing the liver

and therefore not metabolizing into 11 hydroxy delta-9 THC (11-OH-THC) which is more potent, and stays in the system for longer (interestingly, the effect of many drugs is reduced by first pass metabolism, but not THC!). Large amounts of 11-OH-THC are produced when cannabis is eaten, so this metabolic process determines much of the strength of the same dose when ingested in different ways.

The most recent scientific research on the rectal absorption

of THC was published in 1991, and used crab-eating macaque monkeys (people to whom I've told this have said: "poor monkeys!", to which





the reply is, have you seen what else they do to monkeys? These monkeys are the lucky ones!). Results showed no rectal bioavailability of THC, but when the cannabinoid was processed to create a combination with the molecule ester hemisuccinate (THC-HS), the bioavailability shot up to 13.5% and the mean residence time of THC in the blood was 5.8 hours. THC-HS is water-soluble, which is why it dissolves into the aqueous mucus.

Back to my personal rectal cannabis experience

What all my theoretical research came down to was basically “anecdotes say something might happen, science says nothing should happen”. This being as far as I could get with ‘set’, I moved onto ‘setting’. We put mattresses on the living room floor and made sure there were enough drinks and munchies on hand. I had music, films, and interesting picture books to stimulate us if needed. I thought about lighting some candles, figuring I should make it as nice an experience as possible after subjecting my lab partner to descriptions of animal experiments and rectal aqueous mucus, but fire and altered states don’t mix so I just turned the lights down. To give an accurate report as possible, we had abstained from any other drugs (including the legal ones) and I set my phone to beep at half-hour intervals so I could chart the experience.

“For science!” We toasted each other with the large, slippery, dark green bullets. First lesson: insert them as soon after removal from the fridge as possible, because fingertip heat alone is enough to start them melting. However, this means they are basically self-lubricating, which isn’t a bad thing. We lay down, me on my back and my lab partner on his side, and waited.

After half an hour, I felt quite giggly. This could have been the incongruity of live-tweeting rectal cannabis use as part of my job, though. In response to a tweet asking me how it was going, I attempted to analyze what I was experiencing. There was a mild tingling sensation, not unpleasant, around the ground zero area of application. I wasn’t able to say for sure if there was any psychoactive effect. My lab partner had fallen asleep, but he had travelled overnight from London to Amsterdam and arrived that morning. The data was inconclusive thus far.

One hour into the experiment: Getting high

My lab partner was still fast asleep and I was explaining to people on Twitter that I didn’t have IBS or IBD, this experiment was purely for research. A feeling of deep relaxation suffused me, especially my legs and pelvic area. I believe the use of suppositories to ease menstrual cramps could be very effective, based on this. I felt extremely tranquil, but not sleepy, and decided to finally get up and go to the kitchen for a change of scenery and to see if any psychoactive effects made themselves known.

They did. Once in the kitchen, the munchies kicked in with a vengeance and I noticed that colors and patterns were enhanced. I heated up some soup: flavors were enhanced too. I giggled to myself thinking about the great Dr. Lester Grinspoon’s realization that he was having his first cannabis experience when the pizza he was eating became the best he’d ever tasted.

Despite being a clearly recognizable cannabis high, what I was experiencing was unlike what I’ve felt when eating, smoking or vaporizing it. My head felt clear and I felt peaceful yet alert; a sativa type of high without the soaring headrush or potential confusion. It was extremely enjoyable and not at all overpowering, yet I was definitely in an altered state. The dragon

trees in my living room looked fascinating. Getting back under the duvet was lovely. I felt no need for additional entertainment. There was an opiate-like quality to the contentment and relaxation, but no nausea or feelings of disassociation.

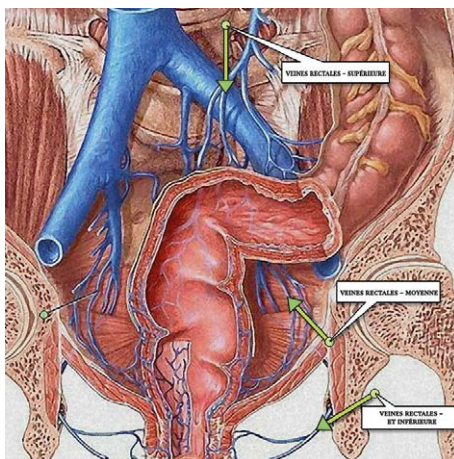
An hour and a half in: Definitely high

I was still feeling the same effects, which seemed to have hit a plateau rather than fading or intensifying. My lab partner woke up and said he wasn’t sure if he was feeling anything apart from very relaxed, but he definitely felt like eating something. He just wasn’t sure what (in retrospect, this was a total giveaway that he was experiencing the effects). The following conversation took place:

“Is it chocolate?”

“No.”

“Is it oatcakes with vegan cream cheese?”



"No."

"Is it... (I am having trouble remembering what else there is to eat) ...is it tomatoes?"

"I don't think so."

"Ooh, is it pineapple soy yogurt?"

"YES. Yes, it is. Oh yes."

"We are definitely high."

We devoured a liter of said yogurt in under three minutes. It tasted fantastic. Then we lay back down and discussed the high. It was strong but not psychedelic, and deeply physically relaxing. The best analogy is that of lying in a warm bath that you don't want to get out of. All muscle tension was dissolved, we felt warm and heavy but not sleepy, and the effect seemed to end at the upper neck – literally as though lying in a bath with only your head out of the water. However, it was not a 'couchlock' stone. We remained alert and talkative. Although the effect was powerful, it was not at all disorienting or overwhelming.

(There was one additional fact that I was not expecting. I hadn't read about it anywhere during literally hours of research. So, dear reader, I will share it with you. After eating, the digestive system starts up. This can lead to passing wind. And if you're experimenting with rectal use of cannabis, this causes your wind to smell like a growroom of strong sativas just before harvest. You're welcome.)

The following day: Still high

It was also very, very long-lasting. Neither of us use cannabis regularly anymore and consequently we both have low tolerance; even so, I was not expecting to still be high the next morning. After I left for work, my lab partner had a large breakfast and went back to bed. By the time he texted me at 15:00 to say he had just woken up and could I get some more pineapple yogurt, I was pretty much back to normal. It took him several more hours to feel completely back to normal. This makes rectal use of cannabis by far the most economical method I've tried so far.

More research is needed on the rectal use of cannabis

Based on my research, what conclusions can be drawn? Firstly, there is no way that we were experiencing a placebo effect. I've used enough cannabis to know the difference. Secondly, although I had no way of measuring THC in our blood plasma, I can assure you that there was plenty sloshing around our endocannabinoid systems. So how did

it get there? It's fairly safe to assume that at least some THC entered the superior rectal vein and achieved first pass metabolism into 11-OH-THC. I was aiming for this to happen, so I literally aimed for it (unlike medicinal users who would presumably keep the suppository lower in the rectum to avoid it).

It might be possible that the effect was so long-lasting because any THC missing the first pass when it initially entered the bloodstream via the inferior and middle rectal veins would eventually reach the liver, so a second phase of metabolism into 11-OH-THC could take place long after the initial dose.

However, for the THC to get to any of the rectal veins, it still needs to traverse the aqueous mucus layer. As previously stated, this shouldn't be possible without the presence of the hemisuccinate ester. Could it be that some part of the process of making the butane extracted concentrate causes the presence of THC-HS, or a similar enough ester to permit absorption to occur? The experiments on the macaque monkeys used THC only, not whole plant extract. Could the presence of other cannabinoids, the 'entourage effect', make the crucial difference? However, Dr. Frankel's studies used cannabis oil in cocoa butter, and that did not seem to work. The doctor himself concludes that more research is needed in order to take full advantage of this delivery method.

Benefits of rectal cannabis use

Having tried it, I can think of various benefits for both medicinal and recreational rectal cannabis use. There's the long-lasting deep relaxation, which would definitely relieve pain and muscle tension. The extended 'munchies' effect would doubtless aid anyone who needed to gain weight, and the delivery method means that there is no risk of vomiting up oral appetite stimulants. The amount needed for an effective dose is small, and the dosage is easy to control. There is also the advantage over edibles, such as cake or sweets, of it being highly unlikely that someone will accidentally ingest a cannabis suppository thinking it is a harmless treat. There are numerous tales of people eating 'medibles' by accident, but I have never heard of anyone inserting a random suppository they found lying around.

Work the following day was a little more challenging than usual, but by no means impossible. I would not have wanted to drive or operate heavy machinery, but the clarity of the high was fine for writing, interacting with colleagues, going to the shops, and cooking dinner. For people who need effective pain relief without being incapacitated, this would be ideal.

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No matter how much you fight with your family you always have an innate love for them burning inside of you that cannot be put out. I guess only in extreme cases does the love truly disappear.

This is not the same for friends, as I've recently come to realize.

At the beginning of last year, I moved back into my parent's house after years of horrendous fights and horrible thoughts. Despite what anyone has done, said or thought, once the house was swinging again and I was settled in we had started to get on better than ever. Since moving back in, I've tried to make more of an effort to spend time with them and there have been times I've thought I was one of the luckiest people

in the world to have them. Regrets at times plague me and I spend hours in an introspective haze wondering how things got the way they did, and, of course, there are also those times where you feel betrayed and hurt. I'm sure many people have thought the same, and what does that say about the current state of human consciousness?

After moving back into my old town, I

came in contact with a number of old friends, one was Tom. Tom had always been an asshole (immature, shallow, ego-driven and selfish) but I'd known him since I was eight and at points, growing up in our teenage years we were inseparable. I'd started to spend time with him again after about two years of not talking but something had changed. Tom had become a full blown stoner. We were now in our mid-twenties but he'd probably bought as much as one joint from me in all the time I'd known him. Now, don't get me wrong, he'd smoked plenty of herbs, he just never bought any and never knew or could be bothered learning simply how to roll. I was always the guy with the weed on him, I despised hearing the classic sentence, 'I smoke weed but I don't pay for it', as there are far too many freeloaders and scroungers in the drug world. I was never going to

it's you...

Words by
Lewis Vincent Lario



be without my magnificent buds, and I was rightfully greedy with them but Tom was an exception. I never begrudged him a smoke, we were with each other constantly anyway, and he was my best friend and I loved him. It became a running joke that Tom was going take me on holiday one week to pay me back for the weed I had so kindly given him.

Unsurprisingly, once we hit our early twenties, we made our own friends and stopped spending so much time together. He'd come round for a smoke every second month. I've always struggled with jobs, money, and life so I was surprised that Tom wouldn't even bring round a bottle of wine or a pay for a takeaway on these nights even once he'd started working full time. I was lonely, in need of company and depressed, so I foolishly kept him stoned when he cared enough

to contact and accompany me. There were even a few times he'd asked for me to roll him a number of joints for him to take to festivals and the like. I was a happy-hippy stoner, I didn't care nor think about it, money is bullshit anyway and I was always, and I mean always, fucking stoned.

So, after moving back into my folk's house I start seeing Tom more and more. At first, it's great to catch up with an old friend, to talk about old times over a joint and a good coffee.

It was good to see Tom grown up and with his own supply but he never smoked more than one joint with me at a time. He would come round to my house with a pre-roll and that's all he ever brought, he'd happily smoke joint after joint and I was blind enough to roll them. I wasn't

sure how much Tom was buying and I was almost positive he never even understood the word etiquette. I put it down to the fact that I smoked much more than he did, and it was my choice to share. Though I truly believe you should live life for the day, as experience has taught me you really don't know what is round the bastard corner in this life.

It didn't take me long to figure out that Tom's greediness hadn't left him, the weed, the indie movies, the comedians, the punk bands and the Joe Rogan podcast he constantly listened to hadn't made much of a difference. He would listen to Joe Rogan's delightfully positive life-advice, then smoke a joint out his window on his way to McDonald's and throw the wrappers out the window on his way home whilst engaging in extreme road rage. On one occasion he invited



me round for 'a smoke' one night, out of boredom I took him up on the offer.

When I got there it was obvious that he'd just invited me round for extra smoke but, as a protest, I had left my herb at home. If I totaled up how much smoke I'd given him over the years, the amount could last for months. I got to his house, made polite conversation until he inevitably asked about weed and how much I had. I could see he wasn't happy when I told him I forgot to bring any, he continued to make jokes about how he would be supplying me for the night and everything that comes with an egotistical, greedy and selfish personality. I was dumbfounded by the fact he had the audacity to complain and it was hard to tell if he was joking or not.

That night he rolled one measly joint, we smoked it outside, came back inside and watched one of those childish stoner movies we've all grown up watching. It was clear after the joint was finished Tom wanted me gone as he sat there shoving a third packet of crisps into his mouth, not making conversation and watching the movie that he'd seen about fifty times like he'd never seen a television before. He was rude, passive aggressive and graceless.

I knew the score, I'd been there before, he was waiting for me to leave so he could enjoy his night in peace, and that's fair enough, but his sleazy attitude towards his so-called friends was disgusting. I couldn't believe that this person was still, in his mid-twenties, trying to use another person for his own selfish gain. I sat there feeling unwanted and wondered if this was the only reason I'd ever been friends with Tom, to provide him with cannabis. To me, it was never a big deal, we could have enjoyed a bottle of wine instead, I was simply grateful for his friendship. Nothing had changed in all these years, I felt like I was Sixteen again, so I left, walked home in the rain and tried to forget about it, putting it down to him maybe being stressed out at work or something.

I left it a few weeks, we'd spoken a few times since that night but it wasn't like Tom was ever going to notice how strange his behavior was as he'd always been the same.

One quiet Sunday, I was bored waiting for my friend, Stacey, to arrive home from Morocco (her flight had been delayed five hours). My usual herb supplier was also on holiday and I'd run out so I texted Tom and asked if he'd return two-hundred favors and pick me

up an eighth to pass the day. The reply I got astonished me and still does to this day, "No! I'm not a fucking drug dealer!" As I read the text I was fueled with rage. I also wasn't a 'drug dealer' but that hadn't stopped me from sorting him out how many ever hundreds of times. I couldn't believe he would use a drug law, that he broke every day, against me and in his own favor. I was in shock, I wrote out a long and angry reply but never sent it to avoid confrontation.

Stacey had arrived back in town so I made my way up to her house. On the way, I received a phone call from Scott, an old school friend. He explained to me that Tom had been in the pub, half drunk and bragging about how much smoke he could get from me. Claiming that because I smoke so much, it was easy for him to come round to my house when it pleased him, load his head up with skunk and then there would be no need for him to smoke his own once he got home as he was already completed stoned.

Another important part of this story is, Tom bought his cannabis from his younger brother at the time, and his brother lived, literally, round the corner from me, and Tom lived about two streets away from him. I never knew you had to look out for vultures like him, and considering I'd known this person for about sixteen years. All the years I happily supplied him and he couldn't even take five-minutes out of his day to help out an old friend. I never replied, I merely blocked him and decided not to bother with someone so selfish again. I got off the phone to Scott and thanked God for a friend like Stacey, a true friend, and cursed God at the same time for this horrible friendship-life-lesson.

I walked into Stacey's lovely house, we embraced each other and by this time it was approaching midnight. We took ourselves into Stacey's living room put on some Jazz, shared a knitted blanket and a joint she'd lit up to keep ourselves warm, and conversation plus joints flowed for the next four hours. I sat on Stacey's sofa surrounded by presents she'd brought back from Morocco for me, thinking about friendship and what it really meant, and then what it meant to other people.

My only advice, the only thing I can take from the Tom-experience is: you'll know true friendship when you have it, and be very careful who you share your weed with.

STONED: THE TOM EXPERIENCE

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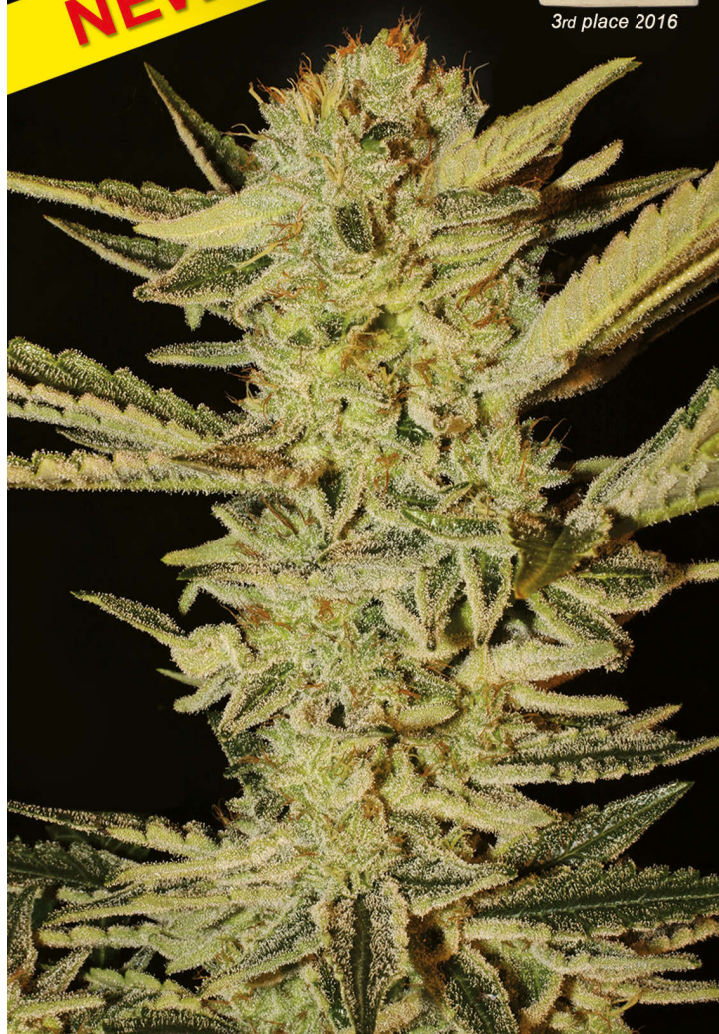
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MEDICINAL MARIJUANA
PATIENT TESTIMONIAL

Jaidah’s Story, By Francisco



CASE
STUDY

“
**It's not
easy to
see your
new-born
child
being
kept for
weeks in a
hospital...**

”

“Life can be extremely hard at times and we just break down and cry because of how difficult everything can get. When you are a parent of a medically fragile child you have to think about who is going to be taking care of your child when you no longer can. Even the thought of losing her to a possible cancer has me tearing up writing this to you.” - Josh

It was a beautiful October day for Renee and Josh Romo back in 2010. They were awaiting the birth of their second child and first girl. Everything had been within the norm during the pregnancy and every test had only brought great news for the family up until then.

When Jaidah was born, the doctors took her in for measurements and that's when they realized something was not right. The beautiful little girl was supposed to leave the next day but the couple spent 3 days in that hospital where the doctors conducted multiple tests. Jaidah had posterior neck webbing, a cleft pallet, ribbon ribs and micrognathia along with a couple other abnormalities. She was then transferred to Lucile Packard Children's Hospital in Palo Alto, CA.

3 more weeks were spent at the Neonatal Intensive Care Unit at this new facility where hundreds of tests were done to try and find everything that could be harming Jaidah's health.

No part of this process was easy on Renee and Josh. It's not easy to see your new-born child being kept for weeks in a hospital without even the certainty that she will ever leave. The poor little girl had to be fed by tubes as one of her conditions prevented her from eating normally. She had to go through a whole new surgery just to implement a G-tube so she could be properly and less painfully fed.

The parents, with enough emotional stress, had to be placed under a series of genetic tests to see if they could link any of Jaidah's conditions to her family. Many tests that the doctors had as backup were inconclusive and the couple was left looking for answers. After this they were sent home and for the past 6 years they have been researching in their free time.

Even the most brilliant minds in the planet have not figured out everything about genetics and so Josh is left at home reaching dead ends where more information is not available. This makes it hard to understand everything that is abnormal about Jaidah's health or even what consequences this might have in the future. Some of her missing genes are linked to cancer which obviously comes as a huge concern and example of what more the doctors might not know.

Besides Jaidah, this young couple has 3 other children but the 12 year-old son and the 8-month old twins can't help a lot yet. Josh works multiple jobs with seed banks in the UK and US and has just started a cannabis edibles company. This is a lot of work for even a single man, let alone a father of 4. Renee works and is taking a phlebotomy course. With one parent having to stay home 24/7 it's hard to maintain a job and a consistent education, this is why Josh takes many jobs from home so that he can always have an eye on Jaidah meaning that he spends most nights working and takes care of his children during the day. It is not an easy schedule to

“

...proving
wrong the
doctors
who
said that
Jaidah
would
never
walk...

”

maintain, but one that Josh does out of love. They earn just over the borderline of poverty so the government can't be of any assistance, yet this couple work extra hard to supply their children with what they deserve and need.

"With proposition 64 there are a lot of regulations that will ruin lots of small farmers and manufactures. The edible makers will be the ones most affected by this. We still have a battle in front of us to try and change some of these regulations." And the war isn't over for Josh and his family nor for anyone who still believes in the future of medical cannabis.

More recently they finally got a few diagnoses: cerebral palsy, scoliosis, sensory processing disorder, deafness and a couple others. These have been treated with a CBD tincture called Jayden Juice. The extract was developed by the brand owner Jason David for his son Jayden to help with symptoms of Epilepsy and Autism. Jason has helped the Romo family a lot with free products and amazing discounts.

Dosing control is a simple process as the medication comes in either a syringe or a dropper. Yet, with it all being a fairly new field, even amongst the most informed doctors, this couple got their information mainly off of other local parents that are also using the same brand of products.

It is also a great advantage that her condition does not require any THC. This way she is never "too high" on the medication because it does not get her high. If an unfortunate future may come that Jaidah develops a cancer, only then will her parents consider micro-dosing THC. But for now, the CBD is sufficient and has brought only benefits to this family.

What used to be defenseless and wandering eyes now have a confident look. Jaidah could now look at her parents directly after just two days of using the tincture. A hand that could not hold a pencil can now open enough to hold a bottle and confidently drink out of one.

Even though she can't talk, it's very easy for Renee and Josh to see when Jaidah is in pain. They started using Jaydens Juice THCa to help with pain and sleep. They did not want to give their daughter any pharmaceuticals. The THCa has done wonders and helped her relax enough to get some well needed sleep - something that many painkillers in high dosage would not achieve.

The only negative effect that Josh and Renee have found so far is that their daughter does not enjoy the taste of the tincture. It is a great sign that the only negative side effect of giving your 2-year-old daughter a medicine that saved her life is the flavor. Nothing that Jaidah can't solve in the future with an artificial flavoring she enjoys.

Cannabis is proving wrong the doctors who said that Jaidah would never walk, talk, eat or even crawl. Small but steady steps are being made within this dedicated and loving family.

"I hope that one day my daughter will be able to have access to any medicine that helps her. Whether it be Jaidah growing her own or a caregiver growing it for her when I pass away. I truly believe that everyone on this planet should have legal access to anything that makes them feel better." - Josh

FOR MORE INFORMATION AND JAIDAH'S PROGRESS: [instagram.com/cen_cal_care](https://www.instagram.com/cen_cal_care)
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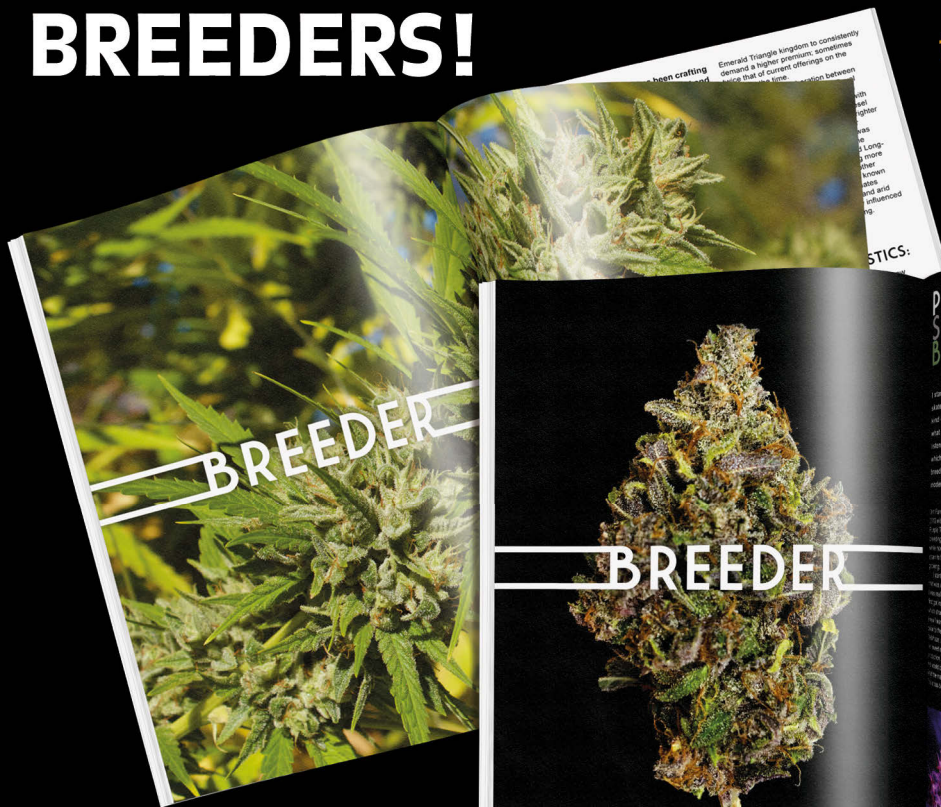
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PURPLE TEARS STRAIN REPORT BY DIRT FARMER 13

I started growing for myself in 2010. I deal with some chronic pain issues from about 25 years of riding a skateboard and Cannabis provided me a safe alternative to deal with the pain. I've always been a do-it-yourselfer and I've been interested in growing and plant selection for a while. I started looking into it more - reading everything I could on genetics and plant selection. I was so fascinated by the genetics and where they came from and how they were made that I had to start playing and learning myself.

In the first batch of test seeds I ran my first seed to pot and (and still at) my favorite to this day. When I opened the first one she gave off a nice purple colored leaf. I was like, "this is the one!" I was like, "this is the one!" I was like, "this is the one!"

Purple Tears came from the grower flower and quickly started packing on one her changing color. She finished around day 63 with dark purple leaves and dense, resin-covered purple buds. I cracked open a nug to reveal a beautiful, translucent, and very sticky bud.

I have been working Purple Tears for the last three years now. From here I've been selecting traits for purple coloring, resin production, and a grapey, heavy terp profile in further generations. She makes for a really great bud, strain, whether it's bubbly, oil, or resin. She also works great for edibles, and the F1 delivers a beautiful flavor explosion. I also have a few F1 hybrid light mode seeds with the Purple Tears light mode structure and early flowering. These plants grow with a nice heavy bud, but she will reward you with more dense purple buds just glittering.



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CANNABIS

From Gateway to Getaway

By Frenchy Cannoli

Today's society is addicted to a vast number of legal and illegal drugs, from alcohol to nicotine, opiates and steroids. It has become vital to understand the nature of addiction and dependence to offer relief to the many affected.

Addiction is a disease and not a personality flaw according to the latest scientific studies; even though people takes drugs to feel good, to feel better or to do better, "addiction is defined as a chronic, relapsing brain disease that is characterized by compulsive drug seeking and use, despite harmful consequences. It is considered a brain disease because drugs change the brain."¹

The oldest archaeological evidence of the use of a psychoactive plant in a cultural context comes from a Neanderthal burial site In Northern Iraq, dating back 50,000 years². It seems crucial to understand what has driven and is still driving humanity to seek altered states of consciousness from mood altering plants since the dawn of time.

Gordon Wasson³, Dr. Richard Evans Schultes⁴ and other ethnobotanists have skillfully asserted

the possibility that psychoactive plants could have been the leading force in the evolution of Homo Sapiens, the origin of language, art and religion. "The urge to alter one's consciousness is as primary as the drive to satiate thirst, hunger or sexual desire"⁵, vital to our survival and to our evolution, programmed into humanity as a natural need that has however taken a dark and destructive aspect in the last century.

Cannabis, one of the first plants domesticated by humans, has been vilified and prohibited these past hundred years through propaganda and deception, even today misinformation is rampant. Robert L. DuPont, the president of the Institute for Behavior and Health, the first director of the National Institute on Drug Abuse still wants us to believe that the Cannabis plant "is positively correlated with alcohol use and cigarette use, as well as illegal drugs like cocaine and methamphetamine." Mr. DuPont however "does not

mean that everyone who uses marijuana will transition to using heroin or other drugs, but it does mean that people who use marijuana also consume more, not less, legal and illegal drugs than do people who do not use marijuana."⁶ Mr. DuPont believes rightly that we are at a crossroad, he understands that legalizing Cannabis will have a lasting effect on future generations but he anticipates negative repercussions. He appears uninformed because the Food & Drug Administration (FDA) while keeping Cannabis on the Schedule I Drug list⁷ mentioned on page 35 of its 2016 Report that after 40 years of research the direct influential correlation between Cannabis use and other illicit drug use cannot be confirmed.

Americans for Safe Access (ASA) have filed a legal motion against the Drug Enforcement

Administration (DEA) to remove the gateway drug theory from their website because it in fact violates the Information Quality Act.8

The oldest archaeological evidence of the use of a psychoactive plant in a cultural context comes from a Neanderthal burial site In Northern Iraq, dating back 50,000 years.

The DEA is the very same administration that gave preliminary approval for the manufacturing of a synthetic cannabis medication by the anti-cannabis pharmaceutical giant, Insys Therapeutics, who donated \$500 million dollars to oppose Cannabis legalization in Arizona during the 2016 election and is under state and federal criminal investigations for possible fraud and for the overly aggressive marketing campaign of the potent and deadly opioid painkiller fentanyl. Insys is actually taking responsibility for the dangerous aspect of fentanyl by developing a drug to treat opioid overdose, their dedication to the patient is truly inspiring!⁹

Cannabis, one of the first plants domesticated by humans, has been vilified and prohibited these past hundred years through propaganda and deception, even today misinformation is rampant.

Sir John Russell Reynolds, the house physician to Queen Victoria and president of the Royal College of Physicians in London recommended the use of Cannabis over opium for almost all painful maladies over a century ago. In 1890 he asserted in the medical journal, The Lancet, that "the bane of many opiates and sedatives is this, that the relief of the moment, the hour, or the day, is purchased at the expense of tomorrow's misery. In no one case to which I have administered Indian hemp, have I witnessed any such results", and 127 years later facing an out of control opiate epidemic, we can consider how uncanny Sir Reynolds' perception was for his time and how ground breaking his approach is still today.

Dependable evidences indicate that legal access to Cannabis through dispensaries reduces hospital treatment

admissions for addiction to pain killers and reduce opioid overdoses in states that legalized the medical and adult use of Cannabis. The research strongly indicates that the Cannabis plant is the only apparent preventive and healing solution to the worst opiate epidemic in the history of humanity.¹⁰

In a clinical study done in 2012, Philippe Lucas M.A assert that "there is a growing body of evidence to support the use of

medical cannabis as an adjunct to or substitute for prescription opiates in the treatment of chronic pain. When used in conjunction with opiates, cannabinoids lead to a greater cumulative relief of pain, resulting in a reduction in the use of opiates (and associated side-effects) by patients in a clinical setting. Additionally, cannabinoids can prevent the development of tolerance to and withdrawal from opiates, and can even rekindle opiate analgesia after a prior dosage has become ineffective."¹¹

Preclinical animal tests have also shown than CBD (cannabidiol) reduces the rewarding properties of opiates by modulating neuronal circuits involved in drug addiction which

alleviate withdrawal symptoms and directly reduces heroin-seeking behavior¹². Doctor Yasmin L. Hurd did recently a correlative pilot study on a small group of patients and the results were analogous to the numerous tests done on rats.¹³

There are more than 650,000 opioid prescriptions dispensed daily in the United States by primary care clinicians who find managing chronic pain challenging and who have furthermore no evidence of the long-term efficacy of opioids for treating chronic pain according to the CDC's (Centers for Disease Control and Prevention) 2016 Guideline for Prescribing Opioids for Chronic Pain in the United States.¹⁴

Today's increase in opiate overdoses, narcotic and painkiller addiction cannot be due to the simple incompetence, ignorance and greed of clinicians and pharmaceutical companies; it is



also the reflection of our society's general state of depression and deep seated unhappiness.

As noted earlier, the primary urge to alter our consciousness to feel good or better is as central to our existence as the need to satisfy thirst, hunger or sexual desire; as such addiction is an answer to strong emotional experiences, often the repercussions of harsh living conditions, broken family and too often it is linked to child abuse.

It all comes down to the endogenous opioid neuropeptides and peptide hormones in humans and other animals called endorphins, this group of hormones are secreted by the brain and the nervous system. The release of these pleasure reinforcement and pain alleviation chemicals are associated with eating, drinking, sex, physical exercise and maternal behavior. Endorphin hormones are generally released by the body under stress and pain and interact with the opiate receptors in the brain to reduce our sensitivity to pain (very much like opioids). The endorphins are also at the source of the bonds we create with other human beings.

Anxiety, mood, and personality can all influence pain intensity, and Cannabis can have an outstanding action in this perspective¹⁵, there is "strong neurological interactions between the cannabinoids receptors and opioids system, in particular with respect to drug reward sensitivity"¹⁶.

The CB1 and CB2 receptors of the endocannabinoids system have an important part to play as rewarding substitute to opioids; "CB1 is highly abundant in the central nervous system in areas involved in reward, regulation of appetite and nociception", currently "only a few [sources of] data are available for the CB2 receptor in central function but growing evidence suggest a role in addictive processes, with an implication in cocaine, nicotine or ethanol effects."¹⁷

The Food & Drug Administration admitted in their 2016 report that

the gateway drug theory has been impossible to prove despite 40 years of research while the scientific world is finally rediscovering the potential of a plant which, far from being a gateway drug is in fact the most effective and least detrimental substitute in opioids and other addictive drugs.

Cannabis is in fact a getaway drug, which is as ironic as it is tragic.

Anxiety, mood, and personality can all influence pain intensity, and Cannabis can have an outstanding action in this perspective...



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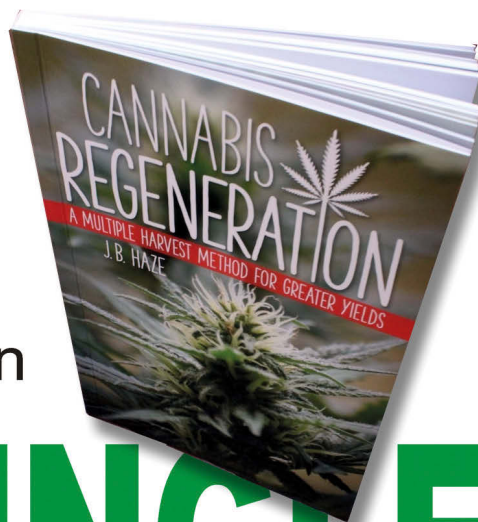
Frenchy Cannoli is a consultant, educator and writer in the Cannabis industry with special focus on hash making using traditional methods. Frenchy can be reached through his website at: frenchycannoli.com or seen on Instagram @frenchycannoli.

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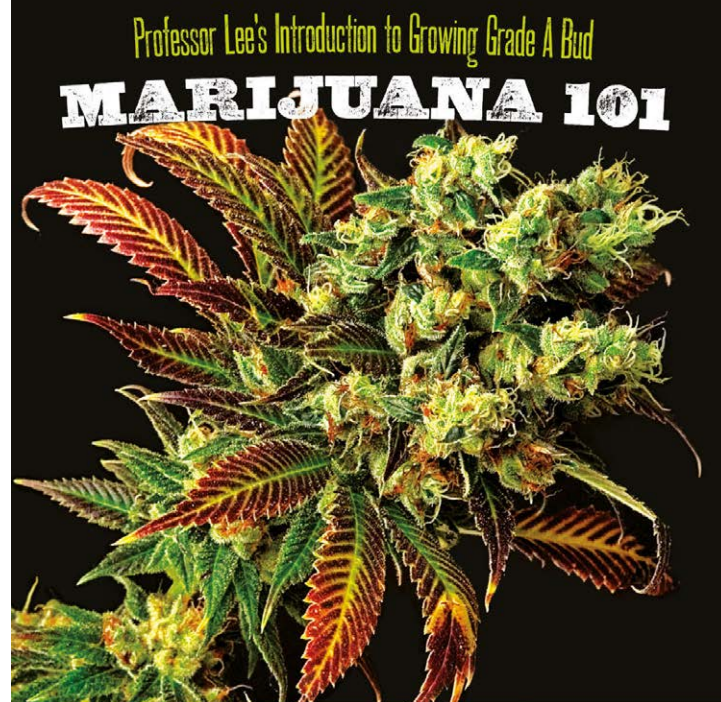
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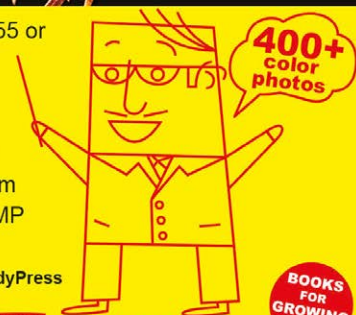
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CRITICAL CHEESE

Dinafem's Critical Cheese strain is a good example of the fact that so-called old-school genetics nowadays are still omnipresent and highly successful. Because it consists of Critical + and Cheese, two likewise very popular strains, the genetic backgrounds of which are Big Bud and Skunk – two legendary evergreens bred in California about 40 years ago...

Words and Photography
GREEN BORN IDENTITY - G.B.I.



And these two proved to be a perfect breeding match: their offspring, Critical Cheese, is a mostly indica hybrid with a lot of excellent properties. Its medium to large growth pattern is characterized by a conifer-style open structure with medium-to-wide intermodal space that promotes good air circulation through the whole crop, thus helping prevent mold infestation – which in the case of Critical Cheese is really crucial as it produces fat dense buds of enormous size, richly coated with resin and spreading an extremely strong odor hitting its peak in the last two weeks of flowering. So, you growers are well-advised to make sure your exhaust air filters are working well! No wonder that Critical Cheese also provides an accordingly strong complex flavor, pronouncing notes of cheese, lemon pine and perfume. But not only its extraordinarily savory scent and taste makes it a favored grower's choice – also its very powerful psychoactive qualities (fueled by a THC content of 19%, CBD: 0.3%) are a true smasher, effecting a soaring euphoric sativa-type of buzz that lasts very long. What makes this strain botanically unusual is the presence of fairly thin, elongated sativa shade leaves in combination with chubby indica-style buds which is rarely to be found. Within a flowering time of 55-60 days, Critical Cheese is able to produce harvests of up to 600g/m². Because it's easy to cultivate grow novices can also achieve great results on their first go. It also performs very well in a greenhouse or outdoors, ripening in late September to early October under natural light. Yields of 700-1300 grams per plant are possible.

Critical Cheese won third prize in the "Seed bank strains category" of the Secret Cup 2016 in Naples. This award was registered with special delight by a grower called Mr. Knolle as he had just started an indoor crop of Critical Cheese. He had opted for this strain because he considers himself a beginner and wanted something easy to grow but nevertheless highly productive and potent. Also his highly experienced friend The Doc recommended Critical Cheese, so Mr. Knolle got things going. He grows his plants in a self-made wooden grow closet with an area of a little less than one sq. meter, illuminated by a 400W HPS bulb. Five feminized Critical Cheese seeds were put to germination, and all of them proved to be strong and healthy, with the seedlings showing up at the jiffy pot surface within three days. Mr. Knolle expected that five of such vigorous plants would fully occupy the cultivation area in the end, and since he wanted to avoid a dense jungle of plants, he decided to keep the vegetative stage fairly short, two and a half weeks. During this time, the five Critical Cheese plants exhibited lush growth, branching out early. When Mr. Knolle induced flowering, they were between 30-38cm tall, pretty homogeneous and they really had those thin, long, sativa-style shade leaves.

Stem elongation continued until flowering week four, and that open structure described by Dinafem became evident, manifesting itself in a Christmas tree-like growth pattern with remarkably long side branches in the lower part of the plants. In the course of flowering, the young flower clusters were heavily ballooning, until they had turned into amazingly bulbous and succulent XL buds that were rock-hard and even much more resinous than Mr. Knolle had pictured to himself before, looking like they were sprayed with millions of resin crystals. The plants' most impressive five top colas reminded him of fat bull's heads, but also those numerous side branch head buds and the buds below fully convinced Mr. Knolle with their volume and density. The scent, expectedly, was extremely intense and identical or very similar with all the five plants: Sweet, savory and cheesy, reminding Mr. Knolle of a kind of cheese that the Dutch are calling "Pikantje".

The flowering stage lasted a bit longer than predicted by Dinafem, three of the plants reached maturity just in time after 60 days, while the other two required 63 days. With final

heights of 75, 81, 84 and 2x 87cm, the Critical Cheese plants had shown a good deal of uniformity. And the blooming pattern was fairly homogeneous too, with all the plants exhibiting a high or very high calyx-to-leaf ratio which made harvest work pleasantly easy for Mr. Knolle. After the buds had been dried, they had turned into concentrated "cheese-morsels": beautiful, silvery-green nuggets as hard as a stone, the heavy piquant aroma of which could instantly be detected even from a distance of several meters after opening the storage jar. The yield per plant amounted to 65-75 grams, adding up to a total of 352 grams. Which was more than satisfying for Mr. Knolle, quite fantastic as already, with only his third grow ever, he had come quite close to that magic 1g-per-watt mark.

The most anticipated Critical Cheese test smoke session finally came and after two tokes from a joint filled with 0.3 grams, Mr. Knolle sensed that something really mighty was about to spread out in his head which felt like a brewing storm – a storm of euphoria that after two more tokes started to swirl through his whole body, electrifying him from head to toe. Mr. Knolle's senses were heavily stimulated by Critical Cheese and this was also true for his appetite... very soon he got the munchies and raided the fridge totally out of control. After about an hour, the stimulative effect started to decline and gradually gave way to a state of relaxed snugness – Mr. Knolle came to experience the indica side of Critical Cheese, in the form of a strong stone that lasted for more than another hour. When the buzz had faded away, Mr. Knolle couldn't resist grabbing another small piece of that kind of psychoactive cheese, also because it tasted so delicious – the wonderfully piquant full-bodied flavor of Critical Cheese left a lot of pleasant sweetness behind on the exhale.

Critical Cheese proved to be a perfect strain for Mr. Knolle, leaving nothing to be desired. "This sort of green Spanish cheese packs a serious punch, and it comes with a Triple P formula – productive, piquant and potent!" Because he wants to keep up with the time, Mr. Knolle will switch to LED lights before starting the next crop. So for several reasons, his next strain tests are going to be very interesting...

CULTIVATION DATA

GENETICS Critical Cheese (Critical + x Cheese)

VEGETATIVE STAGE here: 2.5 weeks

FLOWERING STAGE 60-63 days / 55-60 days in general

MEDIUM Plagron Light Mix soil, 10 litre containers

pH 6.3-6.5

EC 1.1–1.6 mS

LIGHT 400 W HPS

TEMPERATURE day: 26-28°C, night 16-18°C

AIR HUMIDITY 30-50%

WATERING by hand

FERTILIZATION Hesi scheme

ADDITIVES/STIMULANTS HeSi Super Vit, Canna Flush

HEIGHT 75, 81, 84 and 2x 87cm

YIELD 352g



THE TIPPING POINT PART 3

MAKE THE PLANET GREAT AGAIN

By Frenchy Cannoli

In Part I and II of this article, I have covered the medical and agricultural potential of the Cannabis plant and the environmental challenges created by the farming methodologies used to produce these crops.

**Let's now approach the most controversial aspect of the plant...
Cannabis: the mild cognitive intoxicant.**



The reasons behind the controversy is quite simple: Big Pharma and the average Cannabis patient do not have the same definition for the word "medicine". The pharmaceutical companies think Western Medicine, aka Conventional Medicine, is "a system in which medical doctors and other healthcare professionals treat symptoms and diseases using drugs, radiation, or surgery"¹, while Cannabis patients and activists are thinking Traditional Medicine, aka Folk Medicine also known as Alternative Medicine, like traditional Chinese Medicine, Ayurveda, Herbal Medicine or Aromatherapy. The former is chemically mass-produced and controlled by a complex network of insurance companies, doctors and pharmaceutical company representatives. The latter can be managed by the patient himself with the guidance of written references passed down by generations of healers.



WHO DECIDES WHETHER A PRODUCT IS A MEDICINE OR NOT?

Since the 16th century and the birth of the distillation of isolates we have been encouraged to believe that chemical compounds are more potent and effective than plants; while isolates are beneficial to the overall health of humanity and save lives, so are many herbal and traditional remedies.

As I mentioned in Part II, Cannabis is recognized as "a plant that is essentially the Ferrari of the plant world when it comes to producing the chemical of interest"², the cannabinoids that the pharmaceutical companies have so many difficulties re-creating synthetically are readily available in the plant in a limitless diversity. Furthermore, it appears that the 480 natural chemical compounds unique to the Cannabis plant have more therapeutic effect when consumed as a whole than any single of these compounds by itself. The whole is more than the sum of its parts. It is known as the "entourage effect"³. Cannabinoids are highly challenging to mimic or to cultivate as isolates on yeast in the same way that other Western Medicine⁴ drugs are produced. If scientists have so much problem with the parts how will they ever master the whole, the "entourage effect" and its therapeutic potential?

The drug companies fear the now inevitable world legalization of the adult use of Cannabis; the Cannabis plant's psychoactive properties have amazing beneficial therapeutic aspects which even the DEA Chief Administrative Law Judge Francis L. Young agreed upon in his ruling on the Marijuana Rescheduling Petition of September 6, 1988, stating that "Marijuana in its natural form is one of the safest therapeutically active substances known to man." The most serious side effects are also medical attributes for a number of conditions: increased appetite, euphoria, relaxation and increased sexual satisfaction to name but a few. Cannabis is the most grown and

smuggled drug on the planet today for a good reason - it has health producing benefits to the humans that consume it!

Why would the very organizations that should be dedicated to the health and well-being of humanity be fearful of such an amazing gift from nature? The answer is GREED.

Cannabis is a beneficial intoxicant, an anomaly at that level, and a major competition for drug companies. A study done by the University of Columbia released on the eve of 4/20 this year revealed that medical Cannabis could save taxpayers over a billion dollars on prescription drugs⁵ which comprehensively validates the pharmaceutical industry's fear of Cannabis legalization.

Furthermore, a sharp increase in opiate overdoses, narcotic and painkillers addiction has become a national problem in the U.S. Numerous studies indicate that Cannabis can have a positive effect on opiate addiction to help manage withdrawal symptoms and may well be the most effective and therapeutic substitute available for treatment and prevention. Cannabis helps nausea and vomiting, as well as chronic pain management which are the dominant symptoms when detoxing from heroin and opiates. Current research definitely supports the use of Cannabis in addiction therapy⁶.

Cannabis has also proven to be beneficial to reduced drinking and alcohol withdrawal symptoms. Dr. Tod H. Mikuriya, the grandfather of the cannabis legalization

movement in the U.S., who has advocated for a “Harm-Reduction Approach” to alcoholism, and the use of Cannabis as a Substitute for Alcohol¹⁷ did his groundbreaking Cannabis substitution studies in the 1970s! Cannabis is a safer alternative to alcohol and pharmaceutical drugs with little adverse side effects and a much lower risk for addiction^{8,9}, an unwelcome competition to pharmaceutical drugs to say the least.

Cannabis which was once labeled as the “gateway drug” has become the “get away drug” of tomorrow.

The complete legalization of the Cannabis plant will not be welcomed by the pharmaceutical industry until they have full control of the medicinal aspect of the plant by creating synthetic or lab cultivated cannabinoids. Nevertheless, the problem of the adult use of an intoxicating and therapeutic plant will not go away even when (if ever) Big Pharma is finally able to produce all cannabinoids in isolated forms, the Cannabis plant in its natural form will remain the competition that has to be outdone.

The value of a crop is based on the quality of the end-product, the value of Cannabis in Northern America has been defined for half a century by California; the land, the climate, the genetics and the small farmer's knowledge and dedication to quality determine today's market price. Extrapolating from these facts it seems obvious that mass-production and a flood of lower quality products on the market would be counterproductive to maintaining high value.

The value of Cannabis, like all other agricultural products, is dependent on quality and production. Generations of illegal small farmers have created the quality market we have in the U.S. today, a quality and a genetic diversity that is known the world over. It is essential to protect what is the California Cannabis heritage and follow the blueprint on how-to-create-a-multi-billion-dollar-industry-based-on-quality the French wine industry left us in the history books¹⁰.

Big Agro Farms not only cannot produce the quality crafted by small farmers but they cannot even produce quantity without the use of chemicals and pesticides¹¹ which has become a serious concern to patients and consumers¹² in the U.S.

It is for Cannabis as it is for all other agricultural products that are mass produced it seems - growing a healthy plant naturally is not easy as many would-be cultivators are finding out. To be blunt: naturally growing a plant that stands out for its quality and uniqueness demands commitment, in-depth knowledge and devotion.

A great wine is the final expression of the grapes that were crushed, fermented and aged. A five-star Michelin dinner can only be as good as the products

that it is composed of. Greatness is born of quality, and cannot exist without.

As much as the small Californian farmer would be ill-advised to try to compete with mega-farms on the production level, these U.S. mega-farms should be wary of the potential of the world's existing producing countries. As small farmers, we have no choice but to focus on quality to be competitive. In my eyes the large scale American producers are in the same position at the world level, and face an important choice that will shape the future of the Cannabis industry.

Our small Cannabis farmers are the source of greatness and quality and the way we approach the taxation of Cannabis products and how we protect our genetics and nurture our cultivators will be the reflection of our vision, our testament to future generations and the legacy we will be held accountable for.

I should also remind everyone that the legacy that our small farmers embody is very appreciated the world over. To kill the goose that lays the golden egg is not visionary. To starve and chase the goose away would be shortsighted to the point of blindness.

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3. *Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects* By Ethan B Russo
4. <http://www.cbc.ca/news/technology/medical-marijuana-yeast-1.3527950>
5. <https://www.rt.com/usa/385891-medical-marijuana-program-taxpayers/>
6. <https://www.hellomd.com/health-wellness/is-marijuana-part-solution-to-heroin-and-opiate-addiction>
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10. *Weed World* issue #126 and 128
11. <http://www.naturalhealth365.com/medical-marijuana-pesticide-2148.html>; <http://www.businessinsider.com/marijuana-bacteria-contamination-health-concerns-2016-12>
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Frenchy Cannoli is a consultant, educator and writer in the Cannabis industry with special focus on hash making using traditional methods.

Frenchy can be reached through his website at: www.frenchycannoli.com or seen on Instagram @frenchycannoli.

| WEED WORLD REPORTS: the best international strains on the market |

the **az** to
of cannabis





Queen Mother x SCBDx SUPERCBDx

Seeds available from www.weedworld.co.uk

Hailing out of southern Spain Queen mother is a pure sativa that is a legend across Europe, when we bred QM and SCBDx together we expected to have something special to pass on and that is exactly what happened. The SCBDx enhanced the production and yield of QM and added the high CBD ratio and the pine taste and smell that is almost addictive from SCBDx's terpene profile, once tasted never forgotten.

Type: Indica 80%, Sativa 20%
Height: Medium 100-120cm
Grow Area: Indoor/Outdoor/
Greenhouse
Flowering Time: 65-75 Days
Flavor: Citrus/Pine
Aroma: Citrus/Pine
THC: 1%
CBD: 24-26%
Genetics: Queen Mother x
SCBDx

ENHANCED PRODUCTION, WITH AN ADDICTIVE PINE FLAVOR



Qleaner TGA SUBCOOL SEEDS

Seeds available from www.weedworld.co.uk

This strain has been fully tested by the growing public. TGA are very happy with the field reports, especially the stability of the strain, the heavy resin production, and the amazing smell and taste TGA created in this hybrid. Produces large, heavy, super resinous female phenotypes with tall, spear-shaped colas. The fact that the strain goes purple in the right conditions just adds to its mystique. This took a long journey to accomplish and TGA are extremely happy with the results.

Yield: Medium to heavy
Indoor/Outdoor/Greenhouse
Sativa/Indica: 60/40
Best way to grow: Fast in soil
and super fast in Hydro
Harvest: 60-70 Days
Hybrid: Jacks Cleaner f1 X
Purple Urkle X Space Queen
High: Very spacey and strong
Smells: Variations include
Grape and banana smelling
females
THC: 10%

TASTY GRAPE/FRUIT/BERRY FLAVORED, HEAVY YIELDER



Quick One ROYAL QUEEN SEEDS

Seeds available from www.weedworld.co.uk

The Quick One is a fast growing cannabis plant, starting to bloom after 3 to 5 weeks. These plants usually don't grow very large and are ready for harvest in 8 to 9 weeks. The big advantage is that auto plants remain small, ideal for indoor and outdoor growing. Generally, it will not grow any taller than 50 to 60cm. If grown well, it can yield up to 150g per plant, and some growers have achieved even more. The taste is mild but good, and comes with a pleasant physically stoned effect.

Type: 60% Indica, 10% Sativa,
30% Ruderalis
Feminized
Height: Medium, 50-60cm
Grow Area: Indoor, Outdoor,
Greenhouse
Flowering Time: 5-6 Weeks
Flowering Period: 8-9 Weeks
after sprouting
Yield: Medium, 275-325g/m2
THC: 13%
Medicinal Level: Low

PLANTS HAVE A NICE FRESH, HERBAL, CITRUS-LIKE AROMA

All strains featured here are available from: www.weedworld.co.uk / orders@weedworld.co.uk / 01974 821 696



After 7 years working for the renowned seedbank Sweet Seeds®, I came to realize which are the most usual questions that growers ask me when they want to know more about outdoor growing and the most adequate strains and techniques for growing outdoors in places like the United Kingdom, where the climate is usually not the best friend for growers. Here are some important questions regarding this subject and my best possible answers.

Words and pics by Tommy L. Gomez

What was your first outdoor crop?

My first outdoor crop happened about 10 years ago, in the summer of 2007. By then I had no relation whatsoever with Sweet Seeds® but, curiously, S.A.D. Sweet Afgani Delicious S1® (Sweet Seeds® variety SWS02) was the first strain that I grew and harvested outdoor. I grew 3 plants in 50 liter pots and each of the plants yielded around 400 gr. of dried resinous flowers.

What is the best way to prepare soil for an outdoor season? Some life hacks?

If you are growing outdoors but with pots, then I advise a good quality soil bought from a grow shop. In other words, a soil mix that is adequate and developed for cannabis growing. If you are growing outdoors directly in the ground, with no pots, then I also advise the same quality soil (at least 50 liters per plant) but then you can also improve the soil around it. This means that you should dig a hole in the ground with capacity for 50 liters so that you can drop the bag of 50 liters of soil in that hole, but if you want to dig a bigger hole (100-200 liters) you could use a homemade soil mix.

For a homemade soil mix I recommend the use of peat moss, worm humus and previously used soil. The previously used soil must rest for at least 4 months. It should dry out and then be rehydrated. Then it can be mixed with the peat moss plus around 10% to 15% of worm humus. I would also mix around 10% of perlite. Mixing a bit of bat guano (500 gr. for each 100 liters of soil) is also a very good option.

To be honest, what do you prefer – outdoor or indoor growing and why?

Personally, I prefer indoor, but I recognize almost the same amount of advantages to both options. Indoors you can have almost everything under control. The plants can have the right photoperiod at all the moments, the light never gets “behind the shadows” and it will never rain on your plants. This helps to get the most resinous buds, leaving the terpenes intact. While outdoors, adverse conditions can compromise yields and the quality of the final product.

On the other hand, the main advantages of outdoor growing are financial economy (the light is for free), unlimited (or less limited) space, allowing the use of much bigger containers or growing directly in the ground and, the most appealing advantage in my opinion: the chance to experience a natural grow with all the interaction between man and nature that it implies.

Outdoors you can get bigger yields with less expense and fewer efforts. Indoors you can get better quality on the final product and keep your grow almost totally under control.





OUTDOOR GROWING IN ADVERSE CLIMATES

AN INTERVIEW WITH TOMMY
FROM SWEET SEEDS®



BLACK JACK F1 FAST VERSION®(SWS49)



What is the most important thing to consider about the climate? How to deal with cool weather conditions?

Extreme heat is not good news, so avoiding temperatures above 32°C should always be mandatory. The ideal temperature stands between 18°C and 26°C. Temperatures lower than 14°C should also be avoided at all costs in every stage of growth and flowering. Wind is welcome, unless it is so strong that it can knock down our plants or break their branches. Rain is always unwelcome. If it is just a few drops and the plants are in the vegetative stage, it is not a problem, but besides that it must be avoided at all costs.

So, taking all this in consideration, throughout the years I came to realize that the best way to deal with adverse climate conditions when growing outdoors is choosing the right strains that allow us to minimize the exposure of the plants to these adverse conditions. In places like the United Kingdom, where the summer ends early and September brings rain and very cold nights, it is very important to choose the right strains.

If I were to grow cannabis in such countries, I would choose between 2 options. One is autoflowering strains, because they flower regardless of the photoperiod and according to age (time since germination), so it is possible to germinate them in early June and harvest them by mid-August, avoiding the adverse climate conditions and taking advantage of the best 80 days of the year regarding solar exposure and temperature. My personal favorites, which I would use for outdoor growing, are: Green Poison Auto® (SWS30), Crystal Candy Auto® (SWS61), Killer Kush Auto® (SWS56) and Sweet Cheese Auto® (SWS33).

The other option would be the F1 Fast Version® strains developed by Sweet Seeds®. These strains feature a very fast flowering stage. They start flowering in early or mid-July and they are ready to harvest between the last week of August or mid-September. Being photoperiod-dependent plants, they can be germinated in the spring, grow for 3 months and then flower in the summer, which means that they can grow to a very big size and yield as much as any other photoperiod-dependent strain in the market. The grower avoids the first cold nights and rainy days, while harvesting high quality flowers. My personal F1 Fast Version® favorite strains, which I would use for outdoor growing are: Green Poison F1 Fast Version® (SWS41), Black Jack F1 Fast Version® (SWS49), Cream Mandarine F1 Fast Version® (SWS50) and Sweet Skunk F1 Fast Version® (SWS54).

Is it possible to say that growing in a greenhouse is one of the ways of outdoor gardening?

In my opinion, yes. But I divide outdoor growing in 2 "methods". One is the "open air" method and the other would then be the "greenhouse" method. This second method allows the grower to keep the plants more protected from adverse climate conditions while taking advantage of the beneficial outdoor features, such as free (sun)light. The disadvantages would be the fact that (in totally closed greenhouses) the plants don't get the benefit from direct wind and I also think that the greenhouse structure blocks a lot of lumens from the sun light. Discretion is another very important advantage of outdoor growing in greenhouses, especially in countries with strict laws regarding cannabis growing.

How to choose strains for outdoor.

First of all, if you have doubts, contact the seedbank of your

choice and they might be able to advise their best strains for outdoor growing in your country.

Other than that, I would look into fast-flowering strains, strains developed from ancestors that are landraces from countries with extreme weather conditions (like countries with extreme hot summers and other countries with cold summers), strains listed as "easy-to-grow", autoflowering strains and F1 Fast Version strains® from the Sweet Seeds®' genetic collection.

Seeds or clones?

First seeds, then clones. With clones, we can't speak of autoflowering strains because these can only be grown from seeds. But in the case of photoperiod-dependent strains, my best advice is to germinate something between 5 and 20 seeds from one strain and then keep at least 1 clone of each phenotype until you are able to harvest and sample all of the phenotypes. Like this you can choose your favorite(s) and keep mother(s).

This goes for the United Kingdom and countries with similar climates: Between early April and late May, sprout 10 seeds of, let's say, Green Poison F1 Fast Version® (SWS41). When possible, take 2 clones from each of the 10 plants. When they all root, keep 1 clone from each of the plants vegging indoors under CFL lights in small pots. The plants (from seeds) will be ready to harvest between the 24th of August and the 12th of September. Some plants (according to the phenotype) are faster and will be ready in that last week of August. From these phenotypes, select the ones that produce better, more resinous and feature the most pleasant aromas.

Then, let's imagine you get 3 plants that are ready in the last week of August, filled with resin, aromatic and productive. When the plants are harvested and the buds are dried, try them with your favorite method (smoking, vaporizing or eating). From these 3 plants, the one that better fits your preferences regarding taste and effect in the best possible way should be the keeper. Go back to the clone from that plant that you took 3 months ago and make a mother plant from that clone. Like this, in the following year, you can grow from clone. This means you don't need to spend money on seeds again and, most importantly, you know for sure that all the plants will be ready in the last week of August, aroma and effect are within your preferences and the plants will be very productive.

In the United Kingdom I would be doing this as it really is the best way to deal with adverse conditions and lower the chances of problems originating from cold temperatures.

What are the peculiarities of outdoor harvest?

Growing outdoors is a very peculiar hobby. Your plants can be stolen, take away by authorities, eaten by animals, infested by plagues, devastated by adverse climate conditions, etc. But growing outdoors is free (or almost) and the results may be outstanding when everything goes well, so it is very appealing.

What is the most important thing about outdoor growing?

The historical and meaningful relationship between man and nature in all its splendor, with the big plus of dealing with a species that will positively interfere with your mood and happiness in the months to come while leaving a very sweet aroma on your taste buds.

WWW.SWEETSEEDS.ES
OR VISIT OUR FACEBOOK PAGE:
FACEBOOK.COM/PAGES/SWEET-SEEDS



CRYSTAL CANDY AUTO® (SWS61)

THE INDOOR HYDROPONIC GROW ROOM

The goal of all hydroponic systems is to provide the plant's root zone with a balanced and well aerated nutrient solution. To achieve this with a recirculating system it is key to monitor both the pH (potential of Hydrogen, this is a measure of acidity or alkalinity) and EC, CF, TDS or ppm (Electrical Conductivity, Conductivity Factor, Total Dissolved Salts, or Parts per Million, these are all units that indicate the level of dissolved nutrients or salts in a solution). Measurements of pH can be taken in a number of ways, most simply with a color-changing paper (litmus), more accurately with a liquid, color-changing kit, and most accurately with an electronic meter. Dissolved nutrient levels can only effectively be measured by using an electronic meter. All quality nutrient suppliers will have recommended pH and conductivity levels somewhere on their instructions or marketing.

First of the methods I am going to cover is Nutrient Film Technique (NFT).

NUTRIENT FILM TECHNIQUE

As the name would suggest this comprises of a shallow film of flowing nutrient solution in which your plants root zone is permanently sat. The roots should never be completely submerged and should never be sat in unmoving or pooled nutrient solution, which means there is always a good ratio of nutrients, moisture and air to keep the roots healthy and well fed.

NFT is a versatile method of hydroponic growing, and systems can be tailored to a very wide variety of growing layouts. Most commonly used commercially are single row, closed gullies. These systems are built from a narrow gully (similar in design to electrical conduit), some fully enclosed, some with removable lids. These systems can usually be bought

PART 2

Previously, we have looked at the basic grow room requirements, so now let us look at the hydroponic side of things.

I am going to look at four base hydroponic systems, all of them recirculating set ups, and all of them with very similar maintenance regimes. I must stress, my directions will be very basic to keep things simple, but they should give an adequate base to get you started on your hydroponic adventure.







by the length and can be expanded by using multiple gullies across the width. Nutrient solution is pumped to the head of each gully and a slight gradient is set on the gullies to provide flow. Pump flow rates should then be set so that there is just a shallow film of solution flowing down the length of the gully. There is plenty of information regarding flow rates and gradients available both as hard copy and online if you are considering building this style of NFT system from scratch.

A more popular home grower choice is one of the readymade tray and reservoir type systems that are available. These come in a variety of sizes and usually have some sort of pattern or grid embossed into the tray to aid the flow of nutrient across and down the system, and because of this multiple plantings can be made across the width of the tray as well as down the length. These systems usually have the required gradient for a good flow built into them and because of this are relatively easy to set up, only requiring a level surface for the assembly to sit on. The reservoir for these also catches the run off and because the basic principle of NFT is to use as little nutrient solution as possible these systems can be a very low height and still grow a very successful crop.

Pros: NFT systems require minimal nutrient solution to maintain a flow and provide very good all round nutrition to your plants. Only a small amount of growing media is required, often just a stonewool cube or small net pot of clay pebbles per plant, and, as such, there is very little waste at the end of the crop.

Cons: because of the economic nutrient volume, regular monitoring and top ups are a must. Any root disorders can and will spread very quickly, and any irrigation problems (pump failures or power outages) will cause the roots to dry out quickly. Also, because of the minimal media around the root zone and because all the roots become interwoven with one another, supporting the plant from above is almost essential.

Next I'll look at Ebb and Flow or Flood and Drain systems.

EBB AND FLOW

Again these are, in principal, very simple systems. A container of growing media is flooded with nutrient solution and then allowed to completely drain, and this process is repeated several times during the daylight period. Systems can be very varied, from large, media filled beds, containing multiple



plantings, to modular pod or pot systems that contain a single plant per pot. A growing media with good drainage is essential for these systems and clay pebbles are the choice for most growers. The media is completely saturated during the short flood cycle and as the system drains good aeration is supplied to the root zone for that all important nutrient, moisture, air ratio.

The larger beds are especially suited to high numbers of smaller plants (often referred to as Sea of Green) whereas the modular pot systems are usually used to grow a more traditional size plant. The modular systems can become quite complicated, with remote reservoirs, required plumbing, and multiple pumps, but can be very versatile and easily expanded.

Pros: the larger nutrient volumes required for these systems give a good buffer to fluctuations in nutrient quality, but regular monitoring and maintenance are still a must. The larger quantity of media around the roots gives the plants a better defense against irrigation problems and adequate support for growth only needing crop support for those heavy, fruit laden branches (hopefully!).

Cons: there is more growing media to deal with at the end of the crop, although clay pebbles can be re-used several times over if cleaned and sterilized properly. Also, as with NFT, disorders and diseases can spread quickly.

Next on my list, Deep Water Culture (DWC).



DEEP WATER CULTURE

Whilst DWC has been used commercially for quite a while, it is a relative newcomer to the home hydroponics market. The principal of these systems is that the plants roots are permanently submerged in a highly oxygenated nutrient solution. They will have some method of supporting the plants (a tray or lid that holds a small net pot, or in some cases a floating raft that holds the plants) and air is infused into the nutrient solution by means of an air pump or compressor.

Large beds with multiple plantings are used commercially but are often impractical for the home grower, but this hydroponic method is very suitable for individual pot systems and this makes them very versatile as plants can be moved and re-spaced with relative ease.

Pros: very simple systems to operate and run, and when well maintained yield can be very good. When using the individual pot method, disease and disorder control are a lot easier because every plant is effectively a self-contained system.

Cons: these systems can be quite noisy because of the constantly running air pump or compressor. Regular nutrient changes are a must and this can be time consuming when lots of individual pots need to be emptied and refilled. And the required air pumps must be carefully positioned in order to supply good, fresh air (it is never a good idea to have them in the warm moist air of the grow room itself).

Finally I'll look at hydro pots, this is probably the nearest to a traditional organic gardening system, in looks at least.

HYDRO POTS

These systems comprise of pots full of hydroponic media, which are drip or similarly irrigated, sat in a raised tray or bed to collect the run off which is then drained back into the nutrient reservoir. You can use a wide variety of growing media in these systems, loose stonewool, clay pebbles, coco coir, even just a simple vermiculite / perlite mix. As with the flood and drain pots, the quantity of media used can give a good buffer against irrigation issues and good stability during the plants growth. They have the versatility to be able to move the plants to some degree, and spread the garden as the growth develops. Irrigation cycles can also be easily adjusted to suit the plants requirements during all phases of the grow cycle, thus maximizing the nutrient usage.

Pros: good versatility and moisture buffering. Plant access for maintenance monitoring is very good.

Cons: these systems can be taller overall so not as good when room height is an issue, and it is easier to under or over water your crop.

As I have stressed throughout with all these options regular maintenance and monitoring are key to a successful crop and I will be looking at basic methods to achieve this in future articles. But for now I hope this has given you an overview of the basic methods.



CHICLE

AKA BUBBLEDAWG

THSEEDS.COM | WORDS & PICS: GREEN BORN IDENTITY – G.B.I.

SUPER HEAVY HEADS – WITH PLANTS AND SMOKERS ALIKE

Based on the genetic building block Chemdawg, T.H. Seeds had already created two superb crosses, Dawg Star and Underdawg Kush, which in previous cultivation tests conducted by The Doc proved to be extremely potent and high-yielding smashers. No wonder that they successfully made their way into the global seed market. And as a matter of course, T.H. Seeds strived to build on that success, with “Sagemasta” Adam Dunn also hybridizing the legendary T.H. classic Bubblegum with the well-tried Chemdawg male.

The subsequent selection work for the breeding project “Bubbledawg” was committed to the Spanish section of T.H. Seeds, and after they had cultivated the new cross for the first time, looking through the microscope the Spanish T.H. compadres were amazed by the enormous size and amount of its resin glands, thus regarding it an ultimate hash production plant.

An opinion that was confirmed later on through official honors – at the ExpoGrow Cup 2014 in Irun (Spain), the new T.H. breed took second place in the hash category, then even clinching a triumphant victory there one year later, plus a third prize at the Resin Champions Cup of the Spannabis fair in Barcelona. These great achievements on Spanish ground and the strain's development history there inspired T.H. Seeds to give it the alternative strain name “Chicle” (Spanish for chewing gum), since then it's officially called “Chicle aka Bubbledawg”.

Only available as feminized seed, this indica-dominant plant is fast-flowering (50-60 days) and has a medium height gain. Yields are excellent, ranging between 450-550g/m². Its utterly sticky buds give off a spicy odor reminding of Chemdawg, whereas the taste is a sweet and fruity one, pronouncing the plant's Bubblegum heritage. The same is true for the smoke which causes a tremendous body stone of long duration, interspersed with waves of euphoria. Medicinally noteworthy is the fact that Chicle has high levels of both THC and CBD.

Full of curiosity, ardent cannabis strain tester The Doc got to work again, expecting a lot from Chicle aka Bubbledawg: “T.H. Seeds has never

disappointed me, all their stuff I've ever tested in my grow room was a raving success, and what else other than world-class weed shall result from such a spectacular pedigree as Bubblegum x Chemdawg?” That being said, he sowed

...the Spanish T.H. compadres were amazed by the enormous size and amount of its resin glands, thus regarding it an ultimate hash production plant.

two Chicle seeds and after less than three days already, two young seedlings stood stiff and straight in the light. The Doc gave them a veggie time of only two weeks, considerably shorter than usual as he wanted to find out whether his new opulent light setup consisting of lots of SanLight S4W LED modules would outperform his old HPS setup even with a much shorter veggie stage. So the two Chicle plants were given only sixteen days to accomplish a good basic branch structure, a task that they fulfilled very well – when The Doc brought them to bloom, they had developed into strong little bushes with five internodes and a respective number of side branch pairs, clothed with medium broad dark green leaves. Plant heights were 23 and 25cm, so they had grown very homogeneously up to that point, just the way The Doc was accustomed to when growing a T.H. Seeds strain. He expected the plants to double their height during flowering, if not even triplicate.

“The two plants have created some kind of green concrete! And those tons of trichomes add a gorgeous bling-bling effect to it.”

One week after he had switched the light cycle to 12/12, The Doc witnessed female pre-flowering on the two Bubbledawg plants. Which then quickly started budding, as early as after

2.5 weeks already, the branches had sported lots of knobby little “flowerets” that were soon developing into thick clusters full of white hairs and beautifully glistening resin glands. As The Doc had expected, stem elongation was substantial during the first four weeks of flowering, with the plants gaining almost three times as much height, indeed, and also further growing into width considerably.

The Chicle buds became heavy and bulky in the following weeks, day by day they were getting denser, rounder, fatter and more resinous, soon almost dripping with resin. The Doc was very impressed: “Yeah! It's that sort of spectacular flowering show I had hoped to witness!

What I also like a lot is the fact that the calyx-to-leaf ratio is pretty damn high for a mostly indica variety. And their extra chunky top colas are unusually broad, as broad as a bull's head!

It's really insane how big and succulent these monster bulbs are.”

Also, the plants lived up to their classification as a splendid hash production powerhouse – in the last weeks of flowering, they oozed out an additional flush of trichomes so that they were emblazoned with a majestically white resin coat in the end, a coat with an extremely intense smell which made The Doc rejoice, “Folks, forget about those little tree air freshener for your car, THESE are the one and only aroma trees, I guess one could perfume a whole lorry fleet with these two plants!” The Chicle fragrance was not only intense, but also kind of complex, reflecting both the spicy nature of Chemdawg (with hints of fuel and lemon) and the sweetness of Bubblegum. With 57 and 61 days of flowering, the two plants crossed the finishing line in due time, having arrived at final heights of 64 and 69 cm which meant they really had almost triplicated their vegetative height.

After the buds had been properly dried and cured, they still were rock-hard and super crystalline. The Doc: “The two plants have created some kind of green concrete! And those tons of trichomes add a gorgeous bling-bling effect to it.” That Bubblegum sweetness had gained strength over the curing stage, while that

Chemdawg-like lemon fuel scent was fully retained. Of course that awesome smell was anything else but discreet – with a little bit of Chicle bud (wrapped in foil) in the inside pocket of this jacket, The Doc found himself walking in a cloud of weed!

The Doc's huge preserving jars were filled with enormous 219 grams of finest Chicle weed, so also this T.H. Seeds strain had easily made it beyond the magic 100g-per-plant-mark.

Half a gram went into the first test spliff, and with relish The Doc deeply inhaled the intensely sweet and somewhat hashy smoke. It conjured a blissful smile on his face as he sensed this was a sort of weed that, right from the first toke, provides placidity and inner satisfaction. With every hit off the joint, he felt his internal balance increase, and from time to time, a sense of euphoria rose inside of him. So once again he was sitting totally stoned in his beloved armchair, in harmony with himself and the world, with a thick mental blanket wrapped around the senses. What surprised him though was the fact that the Bubbledawg weed didn't make him tired although it hit home that hard: "it's a cool 'n' easy stoner marijuana for indica fans who

CULTIVATION DATA

Genetics

Chicle aka Bubbledawg
(Bubblégum x Chemdawg)

Vegetative stage

16 Tage (after germination)

Flowering stage

57 and 61 das / 50-60 days in general

Medium

Plagron Grow Mix soil, 11 litre pots

pH

6.2-6.6

EC

1.2-1.9 mS

Light

up to 12 x SANlight S4W = 1680W

Temperature

19-28°C

Air humidity

40-60%

Watering

by hand

Fertilization

Organic Bloom Liquid from Green Buzz Liquids

Additives/stimulants

More Roots, Humin Säure Plus, Big Fruits, Fast Buds and Clean Fruits from Green Buzz Liquids

Height

64 and 69cm

Yield

together 219g



wish to remain active instead of getting completely couch-locked and soon being overcome by sleep." That state of indica-driven blissfulness lasted for much more than two hours, it wasn't until then that The Doc felt the desire to roll another spliff.

His concluding words: "Chicle aka Bubbledawg produces super heavy heads – with plants and smokers alike! I've rarely seen such bull's head-style colas, and its heavy head effects are most appreciated as they don't put you to sleep, but lead to deep blissful relaxation and a high degree of internal balance. Plus amazing productivity in a reasonable time, resin in abundance and a lovely smell and taste – this sublime strain has it all!"



the new wave of cannabinoids

THC-V, CBD-V AND CBG RICH CANNABIS VARIETIES ARE COMING

Soon there will be some exciting new cannabis varieties rich in THC-V, CBD-V and CBG. These new varieties are currently being developed using selective breeding techniques to increase the concentration of these unusual cannabinoids.

By Tony, Dutch Passion
dutch-passion.com



The Banana Experiment - SolarSystem 550 - Crazy-leds and more - California Lightworks



Specifically, the breeding community is now very close to releasing cannabis varieties rich in THC-V (Tetrahydrocannabivarin) CBD-V (Cannabidivarin) and CBG (Cannabigerol). The first of these varieties is likely to be seen in 2017 or 2018, assuming the final breeding all goes to plan.

It's an exciting time as no-one really knows the full range of medical benefits offered by these cannabinoids. Although there has been some research into these new cannabinoids, little is known about how, in high concentrations, they will interact with other cannabinoids. For example, will the new cannabinoids amplify the effects of other cannabinoids or will they counteract the effects? Will the new cannabinoids be most appreciated by medical users, or will they allow recreational users new levels of satisfaction and enjoyment?

These new varieties with elevated levels of THC-V, CBD-V and CBG are being created by selective breeding techniques which are combined with extensive lab testing. This means parent plants with known cannabinoid levels are crossed together and the seeds collected and grown. Normally, some of the offspring will show higher levels of the desired cannabinoid than the parents. These offspring are crossed and the process continues over many generations. It's a labor-intensive and time-intensive process, but it's the only way to create elevated levels of the desired cannabinoids. It's the same process that was used several years ago to create the first CBD-rich varieties. CBD-rich varieties are those that contain 4% (or more) CBD in the dried buds. At the moment it still isn't clear what the levels of THC-V and CBD-V will be, but we expect levels of around 2-7% with an upper target of 10%. CBG levels are expected to be in the region of 4% when stabilized.

THC-V (Tetrahydrocannabivarin) effects and benefits in cannabis.

As the name suggests, THCV has a similar molecular structure to THC with a few slight differences. THC-V is psychoactive, but like the rest of the cannabinoids, it has received little research due to cannabis prohibition. One of the most interesting questions is how THC-V will modulate (or affect) the traditional THC 'high'. Will elevated levels of THC-V provide a more enjoyable experience? Moreover, if so how will that happen? Will THC-V amplify the effects of THC or will it counteract them?

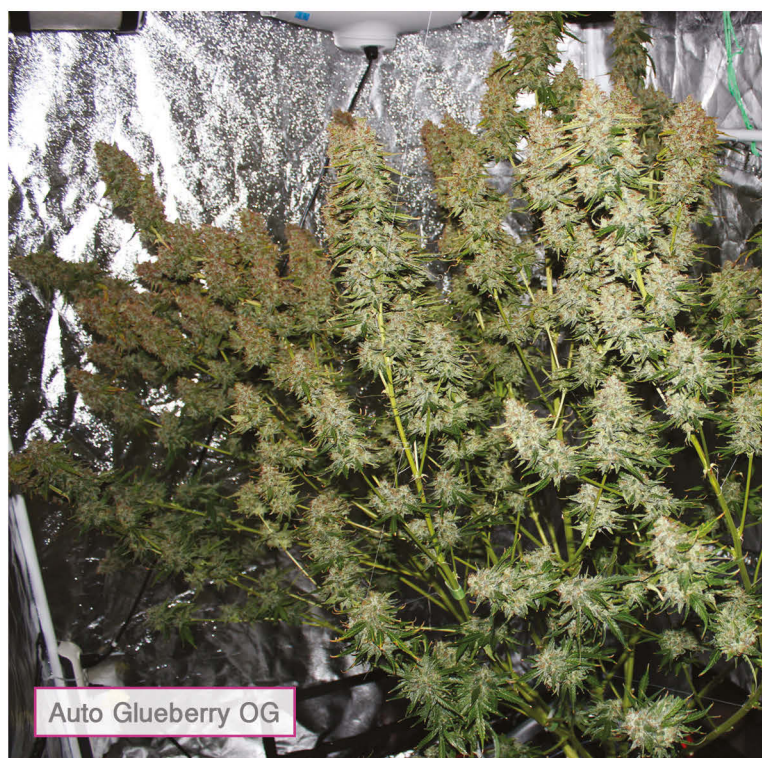
Another important question is what will medical users get from the presence of high levels of THC-V? Will THC-V improve the medical qualities of cannabis and if so which conditions will benefit the most? Although there has been plenty of speculation about THC-V, and some suggested benefits, Dutch Passion expect many of the answers will come within the first year or two of THC-V rich varieties being on sale.

THC-V has a high boiling point, around 220°C so your vaporizer may need to be on a higher temperature setting to release it. For comparison, THC boils at about 160°C.

Early indications suggest that THC-V may have the ability to enhance the euphoric effects of THC. So this could be a cannabinoid which will be of great interest to recreational users as well as medical marijuana users. GW Pharmaceuticals are investing heavily in research into THC-V as a possible



Auto Night Queen



Auto Glueberry OG



Auto Cinderella Jack

Auto Cinderella Jack





oral medicine to treat diabetes. You can read more about the work at www.gwpharm.com.

CBD-V, Cannabidivarin effects and benefits in cannabis

CBD-V is a non-psychoactive cannabinoid, meaning that it will not get you high. The chemical structure of CBD-V is very similar to CBD and CBD-V is already receiving lots of medical attention from GW Pharmaceuticals who are impressed with the anti-convulsant properties. Longer term medical research is focused on anti-epileptic medicines for both adults and children.

CBD-V has been found in reasonably high levels naturally in some Northern Indian indica varieties close to mountainous areas, and is also found in some Nepali varieties. Some of the highest CBD-V concentrations are found in Nepali hash. Old school readers will remember the legendary 'Nepalese Temple Balls' which was one of the most sought after hash varieties in the past, and was occasionally available in Dutch coffee shops.

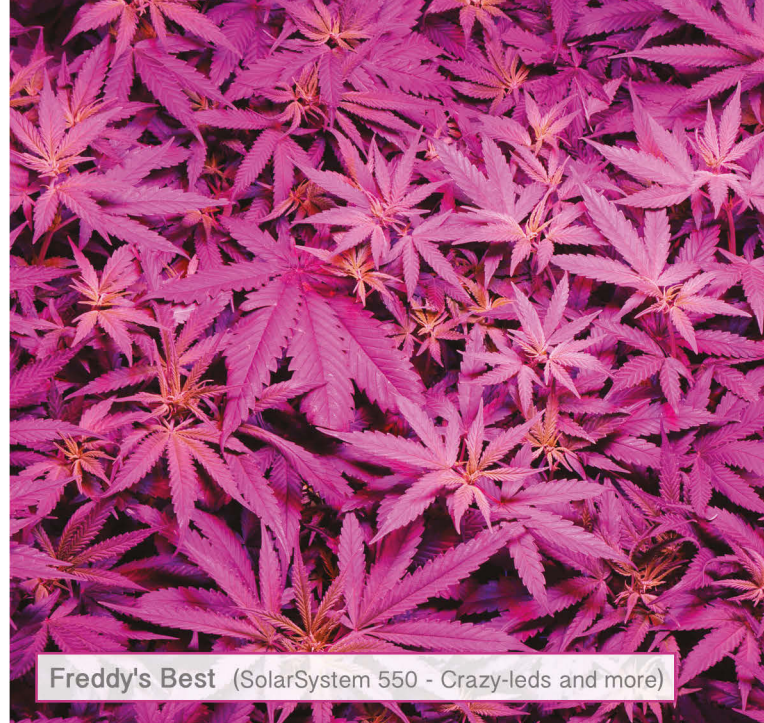
Again, many questions about the function and effect of CBD-V remain unanswered. But with mainstream pharmaceutical companies already investing heavily in CBD-V it seems quite likely that the medical evidence for CBD-V effectiveness is already accumulating. More information on GW Pharmaceuticals medical research into CBD-V is here: gwpharm.com/products-pipeline/research-trials/therapeutic-areas

CBG, Cannabigerol, effects and benefits in cannabis

CBG is thought to be non-psychoactive. CBG is the non-acidic version of cannabigerolic acid (CBGA). CBGA is often regarded as the initial "mother cannabinoid" which is the starting point from which other cannabinoids are created. At harvest, in most cannabis varieties, much of the CBG has been converted into other cannabinoids, usually THC or CBD. Typically, most cannabis varieties have less than 1% CBG in the plant at harvest, but selective breeding has allowed CBG levels to be increased to 2-3% in research varieties, and this may be increased further before the first CBG variety is released. Many of the medical expectations of CBG will be confirmed by ongoing research, so speculating about the benefits may not be helpful, however many potential uses are listed by Wikipedia which include benefits as a neuro-protectant, pain/anxiety relief, anti-inflammatory, antiseptic etc.

Exciting times for cannabis: New cannabinoids on the horizon

CBD varieties were just the first wave of new cannabinoid rich strains. Many were surprised at the impact which CBD varieties had, so it will be fascinating to see how the new cannabinoid varieties will eventually be received. For Dutch Passion it's a normal and natural part of our thinking to push back the boundaries and look at new areas of cannabinoid breeding. Remember: Dutch Passion were the first to invent feminized cannabis seeds and were one of the first suppliers of high quality autos as well as one of the first to supply CBD-rich seeds. Being involved in the first wave of new cannabinoid research is an exciting challenge for the Dutch Passion team.



Freddy's Best (SolarSystem 550 - Crazy-leds and more)



(SolarSystem 550 - Crazy-leds and more)



Frisian Duck



Auto Cinderella Jack





WORDS & PHOTOS BY MENDODOPEMUSIC.COM | STRAIN BY TGAGENETICS.COM

Q RAZY TRAIN

Mendo Dope Boys



THE STRAIN

The first time we had heard about “Crazy Train” was from a close friend of ours who introduced us to TGA Genetics many years ago. This local farmer had been growing a variety of strains from the TGA catalog and when we saw this particular one we simply had to try it. Legendary breeder Subcool set out to create his version of “Purple Trainwreck” with this special cross using “Bloodwreck” and “Querkle”.

I have always been a fan of the original Trainwreck myself but it wasn’t something I could enjoy every day, the strong terpene of the Trainwreck is unmistakable and very pungent: when smoking its almost overwhelming. Another top flavor we always enjoyed was the well-known grapes, specifically the old school “Purple Urkle” which was rare to come by and never seemed to produce much but always smoked nicely. Combining these two strains could only mean one thing: Dank! After hearing about the genetics used to create the “Crazy Train” we instantly wanted to try it. When our friend gave us a first-hand look at some of the flowers he had grown right in Mendocino County he had us rushing to get our seeds.

The extremely hot days in the Emerald Triangle call for strong genetics that can withstand the full sun and temperature changes throughout the season, with the Bloodwreck cross we knew it could handle it. Every year we look for mildew fighting genetics but we always make sure to find the hidden flavors that are created by Pheno Hunting, and this year we found “Crazy Train”.

STRAIN OVERVIEW

Crazy Train is the perfect blend of lemon lime and purple cherries, every trichome will glisten as you approach this magnificent flower. Planting our seed into its 1,000g Smart Pot we didn’t know exactly what to expect, all we knew was that it was going to be a monster.

In 2013, we tested the Crazy Train for the first time and it was performing at its peak but we were raided by the Mendocino County Sheriff and never got to see the finished flower. We were stoked to finally try it once again. Under the full sun, thriving in the Northern California climate, this Crazy Train grew very fast and was easily trainable. With the 50/50 mix of Indica and Sativa in this cross it allowed the plant to be continuously topped and

produce hundreds of bud sites with no problem after its final stretch.

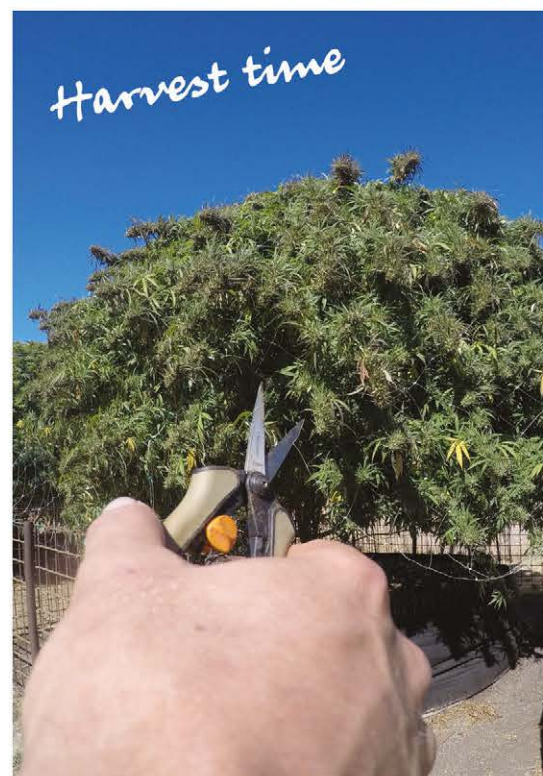
Varieties of this strain range from the lemon spectrum having skinny branches to the thick Querkle-dominant phenos which have an aroma of fruit candy. Sometimes buds can grow too large and tend to easily mold due to the early morning moisture or a rainy season, however this pheno carried more of the Bloodwreck and Space Queen traits which made it very mold resistant. The cherry flavor of the Space Queen shines through and enhances the crystal content bringing out a more exotic taste that is complimented by the Purple Urkle. The overall flavor of this strain is exactly what Subcool was trying to achieve, a Purple Trainwreck that leaves your taste buds covered in lemon, grape and lavender.

Cages and trellis are key to achieving the maximum yield on this plant, as once the flowers begin to stack they need lots of support to keep from leaning or falling over. The outdoor flowers on this plant can easily be confused with indoor and the THC content on this plant is off the charts (it looks like every bud was sprinkled with sugar). At the end of its cycle you start to see more burgundy amber fall colors on the leaves and flowers, buds start to get very sticky and the aroma stings the nose. When you smoke the Crazy Train it’s like popping a fresh bottle of champagne and everyone in the room will get the scent of lemons and grape fuel from the lingering cloud. Great for treating body pain and relaxation, this hybrid will have you feeling perfect after a long day. What also made this strain so special to us was we grew this specific plant into our 2016 “Ganja Plant Vocal Booth” to record our Live In The Garden Season 2 album outside. Every artist who stepped into the “Crazy Train” was blown away by the size and quality of this strain. Topping it off we had Subcool come over to get on the mic for Season 2, laying down the classic “Cannabis Hunter” skit inside of a 10ft plant started from a seed that he had created called “Crazy Train”.

THE STATS

Breeder: TGA Subcool Seeds
Genetics: Bloodwreck x Querkle
Yield: Heavy
Height: Tall to Medium
Harvest: 56 Days
Indica: 50% **Sativa:** 50%

Listen to Crazy Train Ft. Winstrong on Mendo Dopes album “TGA’s 10 Pack Of Mendo Dope”





The Nubia HASHISH

Bred by Mean Gene of Freeborn Selections
Grown by Eddie | Processed by Frenchy Cannoli



Just as we cannot remain mired in the old, we must be mindful to not get carried away with the new. We steadily progress forward when striking a balance between what has sustained us in the past and what will propel us into the future. Old world techniques are valuable and go hand in hand with newer innovations, with either perspective being no more important than the other. Rather the interdependence of the approaches yield the best results; as with The Nubia Hashish.

The Nubia Hashish was created by Master Hash Maker Frenchy Cannoli from frosty, sugary trim clipped from cannabis grown by a low-key farmer named Eddie, taught first hand by Mean Gene of Freeborn Selections (IG: @meangenefrommendocino). In an effort to create a richly-colored, mold resistant, high-yielding, resinous, and vigorous cultivar with a truly unique flavor, Gene created the Nubia from the following plant combination: (OG Sour) x (PK x Urkel x Black Afi) x Dirt x Purp x Green Queen) x (Urkel x Black Afi). He gave the seeds to Braveheart of Braveheart's Private Reserve (IG: @braveheartsprivatereserve), who phenohunted the cultivar, made clones, and subsequently named it after his wife.

Although Gene was not aiming for a high CBD value, he was pleasantly surprised with the resulting ratio of 1:1 THC to CBD.

Cannabis has been a major factor in Gene's life; permeating every aspect of it. A cannabis grower for 25 years and breeder for over 20, Mean Gene has dedicated his life to preserving precious genetics by saving seeds and clones as he believes that cannabis is one of the most valuable to humanity as a whole. Over the years he has mainly grown cannabis outdoors in Mendocino and

Sonoma counties. Gene has stood on the podium for over a dozen awards including The Emerald Cup, Breeder's Cup and High Times Cannabis Cup. Not satisfied with simply being great, he has mentored other growers, including Eddie (IG: @stay_splifted), who has flourished under Gene's tutelage.

Currently in his seventh season of growing, Eddie is thankful for the opportunity to grow this wondrous plant. Nubia was grown outdoor in the lowlands of Mendocino. It was a very tall, fast growing, narrow leaf dominant Hybrid with thin leaves punctuated by a red vein along the middle. By the

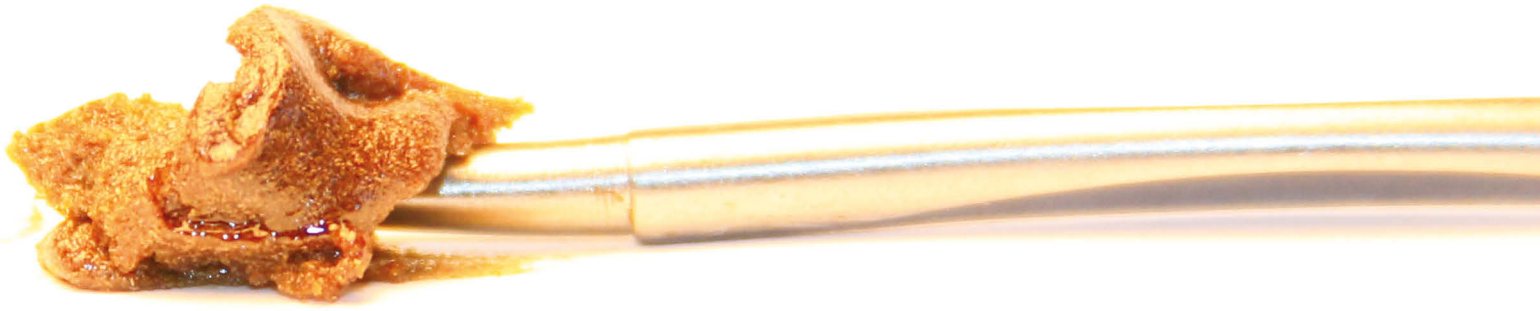
2nd week of flowering, she became very resinous, and ended with a decent yield. After being dried and cured and trimmed, the sugar leaves were passed along to Frenchy to make Hashish.

Interestingly enough, though fresh charas was Frenchy's introduction to resin collection, he prefers cured, dried trim for producing his powerful concentrates. As he tells it, there are two peaks of resin readiness; right at the point of harvest, and also at the point when phenomenal cannabis has been dried and been well cured. He has over 40 years of experience perfecting the craft of making Hashish; a personal journey towards understanding cannabis that began on the other side of the world. Trained by locals in the Parvati Valley in India, Frenchy spent eight seasons collecting resin and living in the most humble conditions like caves in order to eventually produce a most spectacular product.

Skipping to the present day, Frenchy is no longer rubbing his hands to make charas, but rather using his brand new, high capacity machine called The Agitator, produced by Delta Separations. The wash produced an above average yield just over 11%. As per his tradition-meets-modernity process, the collected resin was freeze dried and then pressed using the hot water bottle technique. He has been telling me about a new project especially for me and upon receiving The Nubia, I am quite excited. I have relied on CBD-rich products to assist me with my anxiety and the 1:1 ratio has me wondering about the effect.

As a nod to Frenchy's adventures in India, I decide to make a weekend of exploring my mind and body





connection using an ancient Indian modality: yoga. I plan a rejuvenating weekend courtesy of my friend Ashley Asatu (IG: @ashleyasatu), travelling yoga teacher and creator of the Yogasm Experience; a yoga practice specifically tailored to enhancing a woman's sexuality. When she agrees to lead a private yoga class that I will host in my ganja garden, I ready the space for her, a mutual friend Andrea, and me to move and stretch freely amongst the green goddesses.

I am bubbling over the top with excitement; jazzed up after an extensive conversation with the other women about sex, femininity, and body positivity. Before heading up to the roof, Ashley and Andrea take a few dabs and smoke a few joints. I would love to join, but I have my own special salve for my brain.

I open Frenchy's jar and smile at the small brown dollop of resin. Even in the dark interior, the Hashish is glossy. I poke at it with a dab tool and am surprised it is at first very hard and then gives away smoothly like semi-dried paste. Bringing the jar to my nose, I detect pine, turpentine, and the slightest hint of a spice I cannot quite name. I break off a chunk and examine the rich chocolate in front of me. The outer portion is slick and smooth. The inner is lighter in hue and mottled like well-worn leather. I squeeze the Hashish between my palm and thumb and it yields to my hand's warmth. I like that. I roll the small mass into a tiny temple ball and ready my banger for a dab. In my opinion, Hashish never tastes quite as good as off of a freshly cleaned quartz.

Going through my usual dab routine, I touch the dab tool to the surface of the banger and The Nubia Hashish bubbles wildly. The first bit of vapor slides into my mouth. My chest expands fully and the vapor slips back out without a cough. There is not much mouthfeel, but I delight in the exhaled flavors of earthy pine and spearmint. The taste is like a delicate tea with the smallest bite

at the end. After swabbing the banger, I take a lower temp dab and watch as the brown bubbles pop and skate across and down the side of the quartz. This time, the terpenes revealed remind me of unripe fruit, pine and mint. I look around and the living room has become quite hazy between Ashley and Andrea's Hashish laced joints and my right concentrates. They motion to leave for the roof, and I slowly follow behind, aware that each thought seems to be coming in a slower fashion than the previous.

Once upstairs, I am struck by the sight of the oasis on my roof. Every day I am left speechless at the constant growth and unabashed beauty of the cannabis plants. With their leaves twitching in the wind, they beckon me into the mostly circular space in which Ashley and Andrea are already sitting in Sukhasana (easy pose) breathing deeply. I think I want to chatter, but no words come out of my mouth. Rather I move to my mat, sit, and begin to breathe.

Ordinarily I hear the incessant and maddening chirp of the flurry of birds that reside in the trees that surround my building, but now I hear only Ashley encouraging us to breathe. I breathe in for four counts, hold for seven, and exhale in eight. I repeat the routine several times, feeling my body becoming grounded. As my chest moves up and down, useless concerns that have been wedged into the cracks of my brain begin to loosen and flow out with each breath. Soon enough, I feel practically nothing. I open my eyes and see that the sun has inched to within 3 fingers above the horizon. We have talked so much that we do not have a lot of time to practice. Ashley seems unbothered and begins to speak in her soothing voice. I am unfamiliar with several of the poses, but Ashley is patient, and quite unlike my customary response to lack of mastery, I am receptive and not frustrated by my ungainly unsteadiness and general awkwardness. The sun shoots its last rays, casting a golden mask on our faces, but besides a passing

awareness, I am focused on my body position and inner emotions; which at this point are none.

Ashley concludes the class and I assure her that I will work on strengthening my core so that I can get a better handle on what I am doing. Ashley assures me that the comfort will come with time. I nod and head downstairs. This inner quiet is nice, but it's Friday night, and I am ready for a mental adventure. It's time for some dabs heavy with THC.

The next day, Saturday, unable to secure passes for another yogi's class, I resign myself to lazing around not doing much as the previous evening's exertions combined with my menstrual cycle has left me completely worn out. However, I am late watering my plants and must, at the very least, steel myself for the seemingly gargantuan effort of trailing up and down the stairs with 5 gallon buckets to water 37 thirsty plants.

I gather a few Lemon Haze nugs to roll a fat joint, but opt to take a dab of The Nubia Hashish instead. A quick swipe of my Dipstick in the jar and I smoothly exhale the full bodied smoke. After another hit, I head upstairs intending to rearrange the plants which were moved to make room for yesterday's class.

Opening the door to the bright sunlight and the dancing plants, it occurs to me that a circular space is just what I need to continue my yoga practice in the full warmth of the California sun. I am tired, but with a bit of inner resolve, I begin to drag the large plants, thankful for the handles on the cloth smart pots. They have not been watered as yet, but being 4 feet tall in 25 gallon pots, they are exceedingly heavy.

I start off slowly, but within minutes, I feel my muscles warm and my movements get into a rhythm. I make two concentric circles, whispering coos of encouragement to the plants. I believe plants can sense changes in their position, so I take care to place them close to the neighbors they have had for the last 4 weeks. Minutes pass



and then hours. During that time, I have remained focused on repositioning and watering. I lavish each plant with attention as I check for caterpillars, any wayward males I may have missed, and secure the stakes for those plants that have yet to be caged properly. I am not soaring in an elevated high, but I am calm, motivated and, most of all, moving. Sometimes I find myself stuck like an overworked CPU, aware of the millions of tasks that need to be done, but pulled in all directions and therefore liable to be doing nothing.

After four hours I have completed their care and I practically collapse. For the last hour and a half, I have been running on fumes, but momentum has carried me through. I eat a small dinner and pass out on the couch.

On Sunday morning, I invite over my friend, Sarah Jain, and we spend a few hours talking and admiring the ladies in the garden. When I finally check the time, I realize we are running late for Ashley's Yogasm class. We drive quickly across town to Berkley and practically run over to the address which houses a mini mall, but the entrance to the studio is nowhere to be found.

Despite the constant cool breeze that signifies summer in the bay, I feel overheated and a trickle of perspiration rolls along the side of my forehead. We are surrounded by several boutiques and eateries offering clothing, trinkets and foods of far-off lands, but no sign of a yoga space.

The minutes are ticking away and glancing at my phone I see that we are now 20 minutes late. Finally, I see another woman in yoga clothing and she directs us to a building nestled behind the main mall. We hurry down to a lower courtyard punctuated with bright orange and fuchsia bougainvillea plants; their colorful leaves vibrating slightly in the wind. I hardly notice any of the flowers as we burst into the class noisily. Without skipping a beat, Ashley welcomes us to the class and we unroll our mats. I attempt to slide into a quiet calm zone, but my thoughts are still racing from the anxiety of being tardy. I listen to the instructions and move through the asanas but I do not feel quite right.

Ashley explains how various positions provide opportunities to strengthen our core get to know our bodies more intimately and therefore derive more sexual pleasure. Her approach is hardly conventional eschewing tranquil music in favor of Rihanna encouraging

the class to "wuk, wuk, wuk, wuk, wuk" while we gyrate our hips in a kneeling Chaturanga Dandasana position (low plank).

My thoughts flit from place to place and I am struggling to quiet them; noticing everything from the hair color of my classmates, to wondering what I will do after this activity is through. We stand and move into a high plank and I find that I cannot keep from wobbling. I have practiced these positions before, as recently as two days prior during my private session. I begin to mumble to myself as I am getting dangerously close to dropping all pretense of good form. Why is it that I seem off? Ah...no cannabis!

Figuring that Ashley cares more about me being

mentally present than finishing all of the reps of that asana, I quietly pick up my bag and grimacing from the effort of being as inconspicuous as possible, tip toe through the door.

Sunshine blasts my face and it takes a moment to adjust from the dark interior. I walk over to one of the benches directly across from the aforementioned bougainvillea and as I sit and get comfortable, I smile at its lusciousness and exuberance. On either side of the decorative plant, hyacinths, and large purple Lily of the Nile flowers help



transform the pleasant space into a flowery oasis.

If I did not have to return to the class, I would be content to allow my mind to wend through the many unanswered questions of life, but I focus on getting back in step. I open the small black jar housing the Nubia Hashish and appreciate the dark, soft fudge. Using my Dipstick vape pen, I prod at the Hashish and then inhale quickly. Once again, that greenish flavor mixed with a mild pine rolls into my mouth reminding me of eating the skin of green mangoes. I exhale and the telltale blue smoke lifts slightly, but hardly dissipates; unwilling to be carried off by the flurry of air passing through the corridors leading out of the courtyard. I take two more quick puffs and walk back into the class.

I can feel everyone's eyes on me as I disturb them once again, but keeping my eyes straight forward, I make my way to my mat. I am right in time to flow through a circuit of child's pose, cobra pose, upward facing dog and reverse. Two days ago, this series of poses was very difficult, with the strain on my triceps being particularly intense. But by the third repetition, I realize that the noise in my head has turned way down. I become aware of my tense shoulders and take care to keep them rolled back. I tighten my core to slide through the poses in a controlled fashion. At the upward facing dog position, I extend my neck upward, connecting my crown to the high ceiling and beyond. After doing the positions in reverse order, the release of my lower back when I return to child's pose is supremely calming. I am hearing only Ashley's voice in my head as I repeat the circuit several more times. She walks over to inspect my form and cheers me on. Ordinarily, I would feel a surge of pride at my proper completion of the exercise, but I feel fairly placid inside. I do not beam or grin, but rather do another round with nary a thought in my mind. I am on a very even keel. I am in tune with my body and I feel good.

In the 80s, the theme song from a popular TV show reminded us to take both the good and the bad to create the facts of life. Similarly with regard to cannabis, THC and CBD go hand in hand to help us achieve stasis in a disorganized and often dysfunctional world. Ordinarily, I unapologetically seek the dankest high, but sometimes the serenity of CBD is exactly what I need. I am at the very end of my stash, so I will surely turn to Frenchy for more as The Nubia Hashish will be kept close to help maintain harmony within myself and with my surroundings.

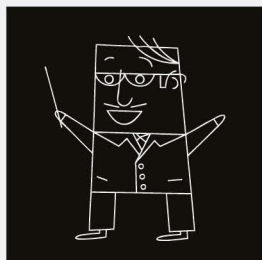
The Dank Duchess is a hashmaker based in Oakland, California. These days you will find her making Hashish, smoking Hashish, writing about Hashish, and/or organically growing cannabis plants to process into Hashish. Follow her on your favorite social media channels at

@TheDankDuchess

and find her online at

www.TheDankDuchess.com

SHO. INIZAGW OTHOM OJEM



Q&A WITH **PROFESSOR LEE**

Weed worries? Puzzled by your plants?
Tense about your trichomes? If you've got a question,

ASK THE PROFESSOR!

Hello Professor Lee,
My plants are struggling. They are about four months old and started off great and grew really fast until a week or so ago. Now they have droopy leaves with spots and some yellowing. I'm growing my plants in a mixture of coco coir and perlite in 2 gallon buckets and I feed them with an organic fertilizer that's rated as 1-2-2 every third watering. They are also very thirsty I have to water them almost every day. Should I increase the nutrient feeding to every time or every other time? I also tested my pH and it's pretty good at 6.3. I also looked my plants over with a magnifying glass and can't find any bugs causing the spots, and the T-5 light I'm using doesn't seem to be stressing the plants. So what am I doing wrong?
Thanks,
Lucus

Hey Lucas,
From what you're telling me I feel pretty confident that



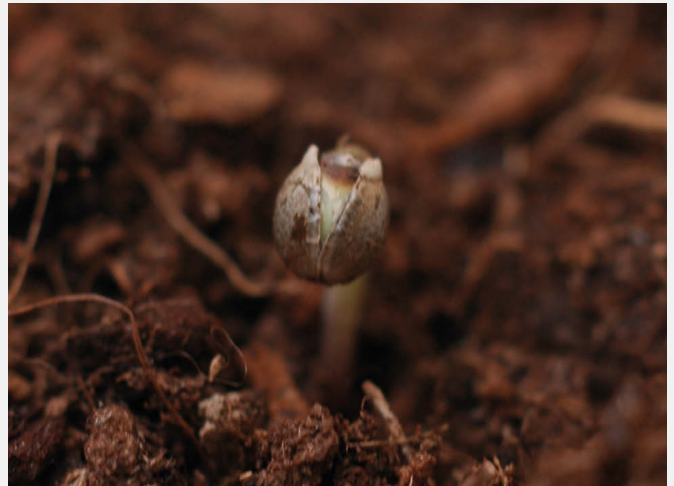
Leaf curling and drooping can be an indicator that your plant is root bound.



Sometimes browning and drooping leaves are a sign that your plant is root bound.

your plants are root bound. Constricted roots can cause all the symptoms you mentioned. A simple rule to follow is to provide one gallon (3.75 liters) of container space for every month of growth. In your case, a five-gallon container should be about the biggest you'll need. When you remove the plants from the current containers the roots will be running in circles around the coco coir perimeter. Be sure to break these up a bit so they can spread out into the new soil—otherwise they will simply continue to grow in circles and not take advantage of their new environment. Once the plants adjust to the new containers they should recover.
I hope this helps!
Professor Lee

Hey Professor,
I started several varieties of new plants from seed and they are all developing purple stems, and seem to be a bit more stunted than I was expecting. If this was happening to just one plant or strain I wouldn't be worried, but it's all of them. Any suggestions?
Thanks,
Allie



Monitor the health of your seedlings and their coloration, keeping an eye on the cotyledons as well as the first true leaves as they emerge. They are important indicators of the quality of your soil.

Hello Allie,

It's true that sometimes plants will just naturally have purple coloring and sometimes they may even grow out of it. But let's err on the side of caution and check to see if you are having a problem that needs adjusting. Without more information I'd suggest starting this way:

Begin by double checking your pH levels. A pH that's too high or low is a very common source of red or purple stems and deficiencies. Next: Most people you ask about purple stems will tell you to add Cal-Mag to your nutrient regime especially if you are using Reverse Osmosis water or have very soft water. RO water has had most of the trace mineral removed from it and growers have to replace them. Stress factors like light burn, transplant shock, and overwatering can cause red or purple stems. Additionally, excessive or fluctuating temperatures can also be a problem (especially cold temperatures).

Try ruling out these potential problems and let me know if it helped.

Professor Lee

Hello Professor Lee,

I'm trying to grow my first auto-flower plants. I picked up some White Haze Automatic and some Super Skunk Automatic seeds and have them germinating right now. My question is that I've been told you can't train or prune them at all because they grow too fast and I'd risk stunting them. Is this true? Or can I do some low stress bending to expose the lower buds to more light?

Thanks!

Karl



Big Buddha Seeds strain Blue Cheese Auto is a great auto-flowering strain.

Hello Karl,

Good question. Just about everyone seems to agree that it's not a good idea to do any extreme training on auto-flower plants simply because their veg cycle is too short. Usually I just let auto-flowers do their thing without pruning or training them at all with the exception of providing support if they need it. However, I can tell you that there are people who do low stress training of the type you're thinking about. If you stick to only simple bending techniques there is really no chance of stunting the plant's growth or reducing its harvest weight. Growers that do believe in pruning their auto-flowering plants limit themselves to only removing the very top main stem growth when the plant is very young. This minimal approach shouldn't cause any problems. Basically, when it comes to auto-flowering plants keep your training to a minimum and you should be fine.

You picked some great strains. Enjoy them!

Professor Lee



Blue North Special from North of Seeds has lovely coloration.

Hello Professor Lee,

I have a weird question. Can you change the color of marijuana flowers? I've seen all these pictures of buds with purple or pink flowers, but all I've ever seen in person or grown myself have had plain white flowers. I was just wondering.

Thanks,

Tamara

Hey Tamara,

That's honestly the first time anybody has ever asked me that, and I don't think it's a weird question at all! In nature it's possible for some plant species to change the color of their flowers based on pH. The most famous example I can think of are hydrangeas. My grandparents' house had many large hydrangea plants growing all around it. Some had blue flowers because they were grown in very acidic soil while others were pink because the soil's pH was more balanced. There is some information about very few strains of cannabis changing their pistil color from white to pink after experiencing a pH change, but this apparently happens in a very small selection of strains, none of which I know of. My mother was a florist for decades and I remember walking into her store and seeing thousands of cut flowers

in vases full of water tinted with food coloring. The flowers would soak up the mixture which would change the flower's color. However, this doesn't seem practical (or necessary) for cannabis growing.

I'm sorry to say that, no, in most cases it isn't really possible to change the flower color of cannabis plants.

Sorry!

Professor Lee

Hello Professor Lee,

I'll spare you the details, but my roommate just returned from Africa with a few landrace seeds that we are eager to grow in our small indoor garden. We've never grown a pure sativa before, but understand that they will get quite tall. Fortunately, we have lots of vertical space, but only a 3 x 3 wide footprint. The garden is lit with a 400-watt HPS and we use an organic soil mix in 3-gallon smart pots. Normally we can cram four indica/hybrid plants into the space and keep them under three feet tall. What are some good tips you can give us to keep our landrace plants under control? If what we grow is as good as they said the smoke was we are thinking we could start our own breeding program!

Thanks,

Dos Growers

Somewhere

Hey Dos Growers,

That sounds so exciting! There are several things that you can do to keep the plants relatively small. It's becoming harder to get hold of pure sativa strains since most (if not all) legal available commercial cannabis seeds are either indica or hybrids. In the early days of indoor growing a lot of growers only had access to genetics from places like Mexico, Jamaica, and Colombia. These pioneers quickly became frustrated with these strains and their habit of overgrowing the garden space, their long flowering times, and their lower bud yields. This is why the seed market has migrated so far away from pure sativas. Despite the difficulty in growing sativa plants indoors, when done right they can provide amazing and unique highs and decent yields.

Okay, now for some tips. If you switch to a flowering cycle when the plants are very young you will probably only harvest one long budding stalk. This can be handy if you are growing lots of plants close together, but in places that have restrictions on the number of plants allowed, a squat bush-

like profile is preferred. Sativas grow very fast during the veg cycle so you will need to keep on top of them with aggressive bending and training techniques. Pinch off the main stem tip after the fourth set of leaves and work to flatten the plant(s) out.

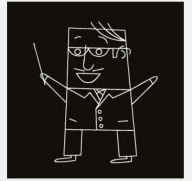
I had quite a bit of success using a simple SCROG system to keep my sativa plants under control. The internodal spacing on sativas can be quite wide and the narrower leaves can reduce the need to aggressively thin out the foliage. A sativa may be ready to switch to a flowering cycle in as few as five to six weeks.

Sativa strains can take three or more months to finish flowering and during that time they can easily double or triple their height. Be ready to provide adequate additional support as needed. Typical landrace sativa buds will be more airy than indica, and foxtail buds are very common.

The trichomes of some strains may turn cloudy but never amber. If most of your trichomes are cloudy with just a few clear ones here and there it may be time to harvest. Figuring out when to harvest might be the trickiest part of growing a landrace strain unless you have reliable information from the traditional growers.

I hope this helped and please send me some pictures!

Professor Lee



African genetics growing outdoors by Seeds of Africa.



Hey everybody. This time I sent Tamara an autographed copy of my book *Marijuana 101: Professor Lee's Introduction to Growing Grade A Bud*. I love it when I get a question I've never had before that makes me really think and dig around doing research.

I've been involved with cannabis cultivation for twenty five years and I learn something new all the time. Please keep your questions coming and you might see yours in the next issue.

'Til next time!

HAPPY GROWING! PROFESSOR LEE



the MUSIC REVIEWS



Glorious

Macklemore

In preparation for his next album (this time without his faithful sidekick Ryan Lewis), Macklemore returns to the scene with a typically humble track and a brilliantly down-to-earth video to back it up. *Glorious* is exactly what you might expect from him and has his trademark smooth delivery peppered all over its easy-listening piano riffs and a great hook sung by Skylar Grey. Too many artists want to talk about the aspects of life that don't really have any meaning, but Macklemore bares his soul in every moment and isn't afraid to speak about his fragility as a human being. You have to respect him for this. Aside from the instantly hummable track, the accompanying video is a testament to the important things in life and shows him surprising his grandma for her 100th birthday (certainly a feat worth celebrating) and letting her have a day to remember. Welcome back.



Europe is Lost

Kate Tempest

In recent months you may have seen this young lady astounding audiences at some of the main festivals, but if you haven't yet experienced her full ferocity then this should be seen as a taster for the main event. Blurring the lines between music and poetry, Kate Tempest's brilliant ballad should make you wince and smile as you appreciate the genius of her wordplay but recognize the truths that she speaks. Make no mistake: this is the voice of our present day and its message is crystal clear. *Europe is Lost* covers all aspects of our modern media-manipulated, socio-political landscape in under five minutes and is likely to make you think more deeply about the world around you than a thousand hours of television. Voices like this are rare and deserve to be celebrated at every opportunity, so check it out, get educated and keep your eyes peeled for her very bright future.



Row Your Boat

Yelawolf

Yelawolf is one of those artists who seems to have found their feet in recent years and has begun to settle into their own style more comfortably than ever. While his earlier tracks were outwardly aggressive and more in tune with the other artists in his stable, his latest material has been more contemporary and found its groove in a way that feels more country and western than it does Hip-Hop...and that's not a bad thing. His southern drawl works well with simple keys and guitars, especially when combined with his increased focus on melodic delivery, and this track helps to up the ante slightly from *Devil in my Veins* and is more in-line with his recent collaboration with Eminem, *Best Friend*. His stop-start delivery works well on this track and the use of the ending word of each couplet to bounce into the start of the next line stands out for me. Good stuff.



the TV/MOVIE REVIEWS



Spiderman: Homecoming

Rated PG-13 • 2h 13min



Transformers: The Last Knight

Rated PG-13 • 2h 29min



The House

Rated R • 1h 28min

While many superhero movies focus their attention on pure spectacle and increasingly ludicrous locales, this latest instalment in the Marvel Universe aims to rein the lavish spectacle back in favor of developing a more relatable and human hero. Homecoming is more the story of a young man trying to figure out the problems of his social life than the traditional good-vs-evil battle you might be expecting (not to say that there aren't a few battles between the 'good guys' and the 'bad guys' – it's just less important), however this actually plays in the film's favor as it helps to establish grounding for future (inevitable) sequels. Tom Holland plays the lead role convincingly and manages to maintain a solid balance of annoying and endearing, while Jacob Batalon is brilliant as his nerdy best-friend, all of which adds to the overall atmosphere of what is an enjoyable movie in its own right.

As a long-time fan of the Transformer's franchise (and I mean that I still own my battered metal Optimus Prime toy from 1983 – not that I just love Michael Bay), I approach each of the live-action films with the expectation that it is going to contain lots of explosions, big robots punching each other into pieces and some ridiculously impressive special effects...and little else. Don't get me wrong, I'm all for those things being combined with intricate storylines and subtly nuanced plot twists but I'm also quite happy to switch off my brain and gawp at a beautiful ballet of chaos for a couple of hours. This film sits quite snugly in between the two ideals. In a nutshell: the Autobots have been on Earth for millennia and have been involved in most of history's most intense battles and are now trying to save us from destruction once again. Cue the subsequent explosions and you get the idea.

It's no surprise that some films only seem to work so well because of the casting choices, but you have to sometimes ask yourself if the film would have suffered severely if different people had been chosen for the key roles. When it comes to The House it would seem a relatively safe bet (no pun intended) to say that Will Ferrell and Amy Poehler save this comic caper from disappearing into absolute oblivion. The premise is very simple (two parents need money to send their child to college after losing out on a scholarship) and is quickly devolved into increasingly outlandish solutions as the two protagonists attempt to make money through running an illicit gambling operation. As you might expect, this leads to an expanding range of zany situations which are as amusing as they are puerile (and not necessarily in a bad way). Worth a watch but unlikely to keep you at the table for too long.





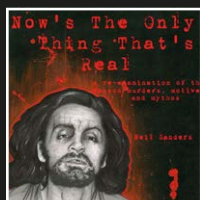
the BOOK REVIEWS



Sons of Trillion: Part 1 (SoT Series)

David J. Khan

It's always nice to discover a new author who is doing their own thing and David J. Khan has (to date) released a number of novels spanning a range of contemporary genres. Sons of Trillion has now hit the online shelves (the first trilogy in a series of six books in total) and takes place in a fictional world, Talos, which shares many similarities with our universe but has some incredibly magical twists. Khan does a fine job of building a believable and immersive world for his story to unfold and manages to intertwine some typically human questions of morality and trust into his fantastical realm with a charm that is engaging and warm. The titular Trillion is a powerful being whose sense of loyalty is tested when his child-to-be is recognized as a prophesized being who is believed to be the bringer of ultimate doom. An intriguing first instalment which paves the way for a cracking series.



Now is the Only Thing That's Real

Neil Sanders

You have to be a brave and inquisitive soul to want to delve into the underbelly of our saccharin-coated world, but Neil Sanders is not afraid to get his fingernails dirty as he digs through the dirt in search of the hidden truths. Never one to shy away from a challenge, Sanders has spent countless hours researching and trawling through police reports, interviews, witness statements and much, much more to try to find out what is factual, what is fictional and what we were never told in the first place about the terrifying and infamous Manson family murders. Brace yourself for a dark and twisting ride through the seedy shadows of Hollywood as Sanders establishes connections between the case and a seemingly endless trail of high-profile celebrities and politicians in a shocking and expansive discussion of one of the most shocking cases in recent history.



Lullaby

Chuck Palahniuk

Some authors seem to be grasping at straw when they try to make their initial idea for a story work over more than a few chapters, but for Chuck Palahniuk it seems like the battle is trying to find enough pages for all the ideas to come together without becoming diluted and confusing. Somehow, this is never really a problem. Lullaby is a crime-thriller with a difference that thrusts you into the middle of the action immediately and then bombards you with a dazzling array of ideas until your head is spinning. Part psychological thriller, part supernatural horror story, this is an intriguing and engaging novel which moves effortlessly through plot twists and pulls you in more tightly at every turn. Each character is like a brilliant caricature of a stereotype, yet they are so believable that each becomes an integral part of the whole piece. Weird, wonderful and utterly compelling.



the GAME REVIEWS



Arms

Rated Everyone 10+ • Switch

Nintendo have a long history of making classic arcade fighting games from Punch-Out to Super Smash Bros., so it's no surprise that they have decided to bring their own brand of madcap pugilism to the Nintendo Switch console. Arms is a brilliant pick-up-and-play party battler which sees you thrown into colorful arenas as one of ten ludicrous fighters ready to launch a barrage of brilliantly brutal attacks on your plucky foes. Each character has their own special abilities which can turn the tide of a match in an instant, but it quickly becomes apparent that the key to success is learning how to dodge and counter as opposed to throwing a relentless stream of punches. Control can be undertaken through a number of input methods but the most satisfying way is to use the ingenious motion controls to have total control of every punch you throw. Brilliantly bonkers and best with a buddy.



Dead by Daylight

Rated Mature 17+ • XO/PS4/PC

If you've ever watched a horror film and thought that you would never make the same mistakes as the hapless teens as they blunder their way towards certain doom then this is your chance. Dead by Daylight pits four players against one in a battle of wits and teamwork versus strength and power and taps into the classic horror stereotypes we all know and love. Each game is different due to the procedurally generated levels but all carry the same objectives: fix the generators to power up the doors and then fix the doors to open them to facilitate your escape. Sounds easy, right? Well, unfortunately for your plucky quartet, the fifth player takes on the role of the merciless stalking killer who wants to find you and do unspeakably horrible things to your young, innocent mortal souls which leads to an intense and gripping experience when it all comes together.



Crash Bandicoot

N. Sane Trilogy

Rated Everyone 10+ • PS4

When it comes to the new generation of consoles it sometimes seems like too much focus is given to 'remasters' of older titles. Having a super-powerful console is supposed to be the gateway to experiences which simply weren't possible on the previous iterations, but we often find ourselves drawn to games we have already played simply because they are shinier and more pretty than we remember. That said, sometimes it's nice to go back to a game we once loved only to be reminded of how insanely hard the games of our youth actually were...and this title fits firmly into that category. Crash Bandicoot's fun frolics will bring back many happy memories, but also a fair amount of cursing as you mistime another jump, while you spin, leap and plow your way through loving remakes of all three original games. Classic retro goodness wrapped up in some fancier pants.





THE CANNABIS CONJUROR

By JB HAZE

Over the previous nine columns — appearing across the last eighteen months — we've had a look at a variety of factors that can impact a typical grow: the importance of Landrace, sexing seeds, germination, seedlings, training, flowering, budding, harvest and curing.

Written in a manner to follow the natural growing pattern of the plant, the articles were presented in chronological order. Many of the tips, techniques, or insights presented created quite the flow of email which tells me they were appreciated.

Before we move on (in future columns) to more in-depth studies of adjacent subjects (like lighting, pot management, nutrient regimes, etc), I feel it's a good idea to summarise the tips and tricks we've learned to date. Taken together, these ideas and techniques act in an 'entourage' fashion, helping your grow to reach it's true potential. If you are new to Weed World Magazine, you may want to hunt down the relevant back issues for the full details.

The Importance of Landrace (Issue 122)

The other day, I offered a friend a bud of a wonderful Landrace. I explained the history and the marvellous head-high. He was impressed, but replied, "I wouldn't really know, dope is just dope to me."

We have, no doubt, seen a certain 'greying out' of herb at the street level. A 'much the same as the last batch,' kind of watering down of the herb's great variety of flavours and effects (both cerebral and physical). This is due mostly to the incessant cross-breeding of strains that continues to this day. As I argued in this first column, Landrace is the way to go if you want to grow amazing herb:

There is great, wonderful, amazing herb out there, and I'll bet you have fond memories of a particular time — probably a while ago — when a certain strain impressed you like no other. It blew you away. Was a 'holy-fuck' moment; an experience so profound it reminds you now, all these years later, why you love the herb in the first place.

What was it that made this particular herb so special? Why such unexpected bliss? Don't you wish you had a stash right now? Can you remember the strain? Maybe it was Panama Red or Acapulco Gold that did it for you. It could have been



Fresh seeds still
in their husks.

Congolese Red, Black African or Durban Poison. What about: Hawaiian Landrace, grown in the volcanic soil surrounding Mount Mauna Loa? You'll undoubtedly relate to something exotic like this when you reference your own personal, best damned smoke I ever had, memory. One thing is for sure, it was magical herb — herb that had risen above the norm.

If you can start your grow with seeds from a truly

Multiple flowering branches due to 'tipping.





exceptional and pure variety, then your results will (depending on your grow skills) be exceptional. Speak to one of the fine seed companies listed right here in Weed World.

Seed Sensibilities (Issue 122)

The quality of your seeds is paramount. Find a good source. But what if you only have access to seeds found in a street-bag? What do you make of those? Are they any good? Are they male or female? While we examined all these questions in the column, it was the sexing of seeds that created the most reader feedback. Here's the skinny:

The golden rules...

1. Lots of seeds in your stash means they are either a mixture of male and female, or hermaphrodites.

2. A couple of seeds in your stash means — in all likelihood — that you have female seeds.

Why is this so? A bag full of seeds indicates that the plant has either been fertilised in a regular manner and has produced a 50/50% mix of seeds, or that she is hermaphroditic.

On the other hand, just one or two seeds found in a bag of weed implies that the plant was grown to (or just beyond) full maturity and that she'd attempted to self-fertilise in order to propagate. Seeing as the plant is made of only female genetics, the seeds produced in this last gasp attempt at survival must be female.

Bottom-line: one or two seeds found in a GREAT bag of weed are keepers!

Germination Magic (Issue 123)

Germination for the home grower has always been a hit or miss affair. The traditional 'paper-towel' technique makes the precise delivery of water problematic, and constant checking disturbs the paper-towels — which in-turn disturbs the seeds.

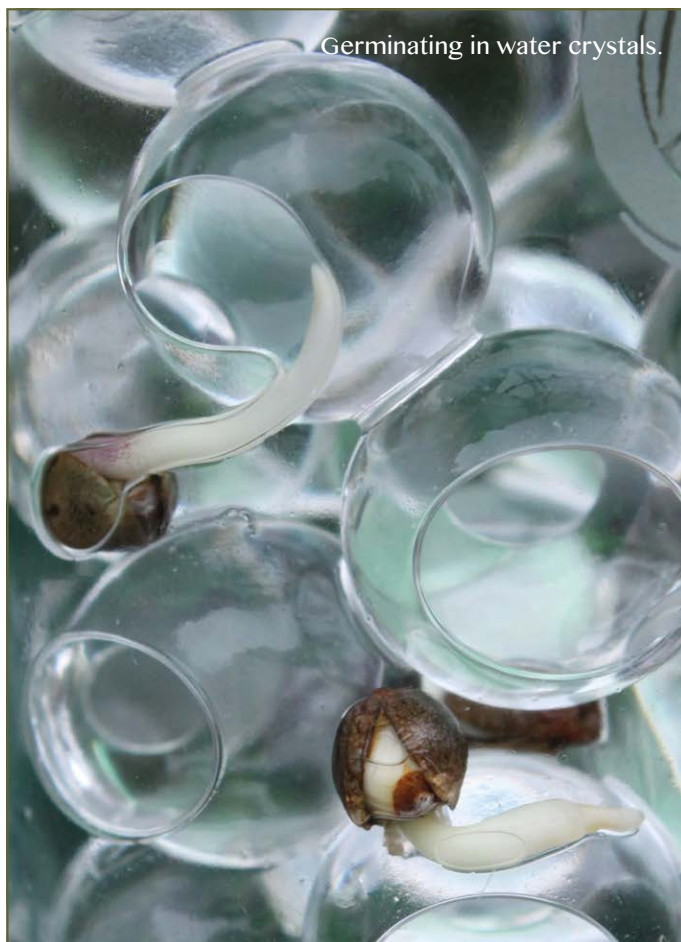
The solution is to use a product called Water Beads. Also known as Water Pearls, Jelly Soil, Dragon Eggs or Water Gel, they are made of a polymer known as SAP (Super Absorbent Polymer) that absorbs water; swelling to many times its original mass.

The truly amazing thing — the real benefit to the germinator — is that the spheres are now able to release their water content at the exact rate your seeds require. Via a process similar to osmosis, the seeds — resting against the spheres — draw the water they need at the rate they need it. Being automatic, you no longer have to worry if the seeds are too wet or too dry for germination to occur. And, you no longer have

to peel apart layers of wet paper — disturbing the seeds — in order to check their status. Problem solved. See Issue 123 for all the details. The technique has a 99% success rate!

Precious Seedlings (Issue 124)

Once your seeds are germinated, they need to be planted out. Many a grower is tempted (and instructed) to firstly plant in a small pot, and then re-plant into larger pots as the plant grows. As we discuss in this column, the Cannabis plant has an active taproot. The deeper this root can plunge before forming side roots, the better. I suggest planting directly into the largest pot you can locate. Skewer a hole (no greater in diameter than a match-stick) all the way down to the bottom of the pot so as to make it as easy as possible for the taproot. Plant your seedling (root down) directly into this hole. You'll have a stronger plant that won't have to endure several rounds of re-potting stress.



Training For Greatness (Issue 125)

Training can involve a variety of techniques. The method we discussed here was 'tipping.' The idea is that by nipping out a growing tip, that tip will re-grow with two heads. If you start once your small plant has it's third set of proper leaves, you can turn the plant into a mighty bush over a short time. Your first tipping results in TWO grow tips. Once these have developed two sets of leaves they can also be tipped. This results in a total of FOUR growing shoots. Repeat to created EIGHT, SIXTEEN, and then THIRTY-TWO growing tips. Some plants refuse to go beyond this point. But, hey! Thirty-two budding spots is fine by me. The entire process keeps your plant low and bushy. Ideal if you are growing with lights.

Those Magical Flowers (Issue 126)

It is the grower's dream to discover that first pair of white hair-like flowers on his/her plant. Firstly, it's a relief, confirming the plant's sex. Secondly, it is a portent of things to come. The occurrence also means that the photo-period has dropped to less than 13 hours a day. This you'll either be controlling manually with a light-timer, or possibly the natural day-light hours have diminished accordingly. Either way, it is imperative that the light cycle suffers NO interference over the next eight weeks of flowering.

It is during this period that your many tipped branches (and grow tips) will develop large bunches of flowers as she heads towards the budding stage.

Budding Madness (Issue 127)

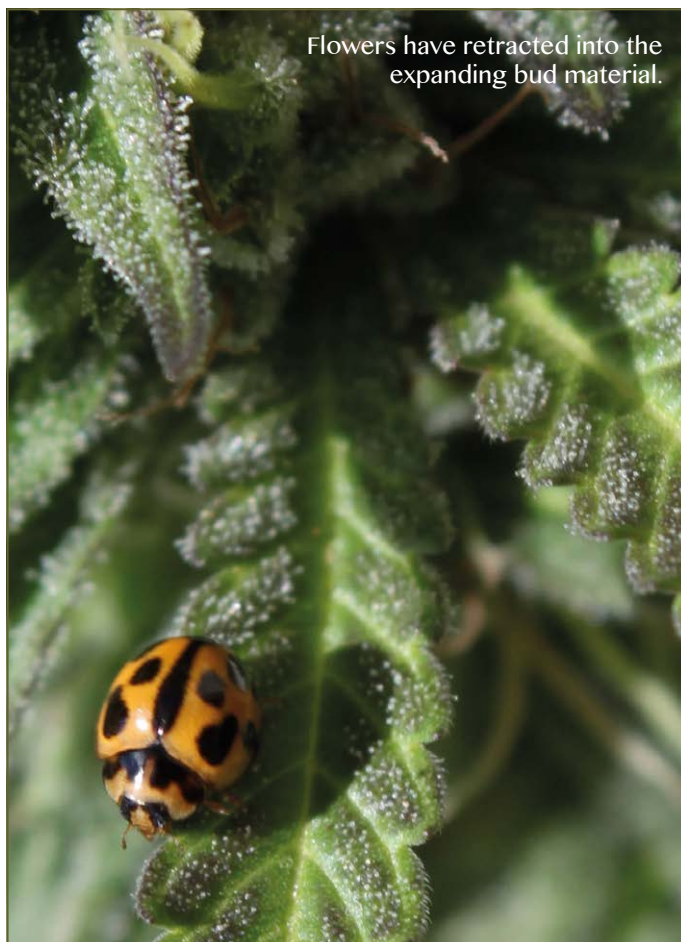
In this issue we addressed a very important point. That is, flowering and budding are two different things. Many a new grower has harvested way too soon by confusing full flowering with budding. To be clear: budding commences once flowering finishes. A huge bunch of white flowers is not a bud, no matter how large the bunch. When she is finished budding, virtually NO FLOWERS will be visible. The flowers get sucked into the bud mass, retracting. Some die off. So, for a full and proper harvest, you must wait until the flowers have retracted, and the buds are covered with little shiny trichomes. These are the carriers of the medicine, and are discussed more fully in Issue 128.

Harvest Time (Issues 128 and 129)

In these two issues we followed the harvest process from identifying that the buds were ready, to finally chopping, drying, and curing the plant.

The most important lessons learned:

1. Wait until your buds are virtually flower-free before harvesting.
2. Check the trichomes. Here's what I had to say:
With the ever-swelling body of cannabis knowledge and wisdom coming to light, it has become clear that the grower can deliberately alter his harvest to create a medicine with specific qualities. Harvest early for one type of medicine, harvest late for another. For instance: An Indica plant is, by definition, quite narcotic in the way it affects the user. We have names for this — 'Couch-lock,' being a familiar term. An Indica plant creates a 'stone.' (A Sativa plant, on the other hand, creates a 'high.') The clever grower, by watching his trichomes, can control the affect that an Indica plant offers. By harvesting early, when the trichomes have just turned cloudy (or are about



Flowers have retracted into the expanding bud material.

to turn cloudy) the resulting crop will be far less 'stoney' and much more 'active' than the typical Indica. At the opposite end of the scale—allowing the trichomes to turn fully golden — the narcotic tendencies of the plant will be fully realised.

3. Slow dry your harvest. SLOW, SLOW, SLOW. Why? Because you need to allow the chlorophyll in the plant to dissipate. It's what makes the plant green, and it's also what makes a poorly dried plant taste like lawn-grass. Yuk.
4. Handle all plant matter gently. Any stickiness on your fingers, or scent in the air is wasted medicine.
5. Once dried and cured, store your herb in an airtight container in a cool and dry place.
6. Enjoy responsibly.

So there we have it. Do go back and check the cited issues for all the details. Next issue, we'll launch headlong into an important aspect of growing that, like many of the tips covered over the past year and a half, will help you realise a truly magical crop.

Exciting news. Green Candy Press (the fine folk who published my book) will be releasing the THIRD EDITION of The Cannabis Grow Bible by Greg Green, in September. About 200 pages have been added to this encyclopaedic marvel — including — I'm proud to say, some of my regeneration work and a bunch of my photographs. Order this tome from Amazon or your favourite bookseller. There is a reason why this is the industry's best-seller — it's jaw-dropping and all-encompassing. A must-have reference for any grower.

Best buds always...
JB Haze

About the Author

J.B. Haze is an innovative grower favouring "the dazzling magic of regeneration" over the more traditional methods of cultivation. A true hippy at heart — well traveled, well-toked, and insanely curious — J.B. Haze brings an educational, friendly, and humorous style of writing to the cannabis genre. He lives in a fine state of mind with his cat and his guitars.

Cannabis Regeneration: A Multiple Harvest Method For Greater Yields, by J.B. Haze is available from all good bookstores, online from amazon.com or with FREE airmail delivery from jbhaze.com.



POST SPANNABIS

THOUGHTS AND RECOLLECTIONS

Anywhere one consumes cannabis is generally a good place to be, as long as you put your paranoia to one side with police hassle, the smell etc., and as the world is turning to a more pro-cannabis stance it is great to find places to smoke abroad that are friendly enough to make the experience better with less head work. Whether it is recreational or medicinal, a nice environment is paramount.

Image: Lindsay Fox

So, BARCELONA
or AMSTERDAM



By Jason Rice

Tourists as a group are an influential tour de force and they command some monetary power. The system in Holland allows them to partake in cannabis, but the choice of Coffeeshops is less now and the quality some say is not as good. The transit and growing of bud, hash etc. and the storage in Coffeeshops is not sorted out in Holland and is fraught with problems for the Coffeeshop owner. Barcelona (BCN) has embraced the foreign visitors and realized they can bring some money with them and the clubs provide access to Marijuana without the need to go to the streets and the Blackmarket, so the authorities turn a blind eye because the streets are safer. Some clubs pay tax in Spain, but it is still a grey area.

One of the things that is now evident is that there is a demand for oils and concentrates and these are well served in BCN. Holland, and therefore Amsterdam, has a policy I believe where the things sold in Coffeeshops are not over 18% THC or it is classed as Class A narcotics which are not tolerated and treated like cocaine or heroin might be. This makes it difficult when it comes to oil or shatter or wax, because of the THC level being so much higher.

This then is their dichotomy where they are now selling icealator hash for the growing market that wants it, but they do not tell you the strength of anything (just a candid explanation of whether it is a body or head experience to expect, which is always vague). Arjan from GreenHouse Coffeeshop said to me a few years ago that this would be the next battle (with the authorities) over the strength of products and what they are allowed to sell. The system has not



caught up with the realities of modern smoking.

When I last went to Amsterdam the situation was that there was no High Times Cannabis Cup (November 2014) and one of the things was that some people were scared of 'dabbing' rigs everywhere with nails and wind proof lighters providing hits for the punters and the only 5 grams per person rules in Holland. It was all too much for some. No more Cannabis Cup in Holland as such.

The thing about Holland is that you do not have to be a member to go into a Coffeeshop, so this means that the whole of Holland is open to have a look at with no problem with your access to herb, and once out of Amsterdam it is cheaper. You can go on Facebook to see what to expect in Dutch Coffeeshops and the Police are friendlier.

Now in Amsterdam there is a no 'dabbing' rule so this means no rigs. But in Spain there is no such problem. People with rigs and titanium nails like the good old days of hot tongs in the kitchen at home only more up to date - wicked! People have their smoking rigs in trendy cases to protect them and would have all the necessary attachments to go with it for a trouble free smoke.

The Cannabis Social Clubs all sell oils, concentrates and extracts and the use of rigs is tolerated and allowed. Tobacco (the other bug bear of the modern age) has meant separate rooms in Holland to smoke but with the Social Club scene it is not a problem. Good extractor systems and good ventilation mean that the areas in a club are not problematic with a smoky environment. If a person goes to a club they make the decision about their health and wellbeing.

Vaporizers are the norm now for a lot of people to make tobacco a thing of the past but there is an inherent collaboration between tobacco and cannabis which is good and bad. The ideal thing would be to not use it at all but people who want to share a spliff with friends know that it is the best option if you want a neat reefer. There is the need to be realistic with the consumption rules and regulation in the modern sense- when the barriers come down and camaraderie and friendliness follow with what cannabis brings, this can only be a good thing. Health is put on the back burner, so it seems.

If you join a few different clubs it means you get a change of scenery, but even with their better system here in Spain, I personally prefer the vibe in Amsterdam- you get the nice weather in BCN but with the canals and more choice of venues there is a better time to be had, but hey, in March with the Spannabis week on offer it is a great choice for a destination. It is very easy to get to and not as far as the USA or Jamaica. As the world becomes smaller you should try it if you can.

There should be a system for Cannabis whereby the Coffeeshops are supplied legally from the countries of origin, to provide money for the less well off in the world and to make a form of drug tourism a tolerated holiday for those that want to participate. Import and Export Licenses for those that trade, like those talked about in Jamaica at the 2016 Rastafari Rootfest, should extend to Cannabis Social clubs like in Spain and in other countries where they are springing up to give a modern, up-to-date answer to an age old issue. The UN needs to act positively and courageously in ending the war on drugs especially with the changes in North America with legalization. There are many options that countries have chosen now, so it is time to finally free the weed.



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strain REPORT

By Joel, NorStar Genetics

Exotic Sativa Hybrid: Sour Chelumbian

About Norstar Genetics

Norstar Genetics is committed to finding and crafting the finest quality cannabis genetics available, for the California medical community to benefit from.

NorStar Genetics are on an endless hunt for the world's best cannabis. Through their extensive testing and research, elite strain acquisition and ongoing breeding projects, you can be assured that all of their products meet their high standards and exceed that of others.

The Strain

What do you get when you cross East Coast Sour Diesel with UK Cheese and Santa Marta Columbian Gold? Something exotic, tasty and surprisingly easy to grow, Sour Chelumbian!

This three way sativa powerhouse combines the dry herbal and earthy spiced Columbian with the full bodied sweet piney funk of the uk cheese, and meld that into the large sour gassy cola's of the East Coast Sour Diesel. (same cut also referred to as AJ Sour Diesel, Sour Diesel and a score of other names,



the original name was Sour Diesel, later referred as East Coast Sour Diesel to delineate the difference from a slew of Sours on the West Coast...)

The ECSD adds yield and potency, while completing the taste profile, which has a nice Chelumbian lean on most (75%) that is a pungent dry earthy pine with hints of gas and the other main phenotype(25%) exhibits a much sweeter flavor, reminiscent of how a sour cheese cross would taste, with only the soaring sativa buzz from the Columbian present!

The reasoning for making this cross was to bring a soaring delicious sativa that is easy to grow to the masses. This cross was able to bring an uplifting buzz, with a distinct positive social feel, making random everyday interactions much more enjoyable. With bright flavors that lingers on the palate she is a strain you may smoke on flavor alone. With all these strains in this cross playing nicely together you get a unique plant that doesn't forget to pay homage to its parents.

With Sour Chelumbian consistently delivering on all fronts, flavor, potency, ease of growth, and uniqueness. No wonder it took 1st place in the 2012 Sonoma Harvest Cup. First and only time entered into a cup that I'm aware of.

The hash made from this beauty is something special to behold indeed and rarely ever leaves my personal head stash.

We currently grow both phenos of Sour Chelumbian for personal smoke, and have a male selected to make some future generations of unique crosses. I will be growing this strain till the end of my days; I suggest you grab some to see for yourself what makes this my go to sativa!!!!

For more information, please visit: norstargenetics.com



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→ SUPPORT & SELF-HELP GROUPS

The following websites and organizations offer advice on giving up or reducing cannabis use.

UNITED KINGDOM

A web-site providing a free downloadable pdf document entitled A Guide to Cutting Down and Stopping Cannabis Use. www.knowcannabis.org.uk/images/Kclargeguide.pdf

UNITED STATES AMERICA

A web-site offering downloadable guides to quitting cannabis use
www.cannabisaddicts.com/
http://stopsmokingcannabis.org/Home_Page.html

AUSTRALIA

A web-site providing a free downloadable pdf document entitled Making Changes: A Self-Help Package for People Thinking about Changing their Lifestyles.
www.gsaha.nsw.gov.au/UserFiles
www.edas.org.au/docs/cannabis.pdf

→ WORD OF WARNING

UK Laws. Please Observe... As responsible journalists, we at Weed World now feel we should extend our information on the re-classification of cannabis – and include the most up-to-date information from the Home Office.

Information from the Home Office - Misuse of Drugs act 1971:

- Class B - include Amphetamines, Cannabis,

Methylphenidate

- (Ritalin), Pholcodine.
- Possession - Up to five years in prison or an unlimited fine or both.
- Dealing/Supply - Up to 14 years in prison or an unlimited fine or both.
- Cannabis is designated as controlled substances under the Misuse of Drugs Act 1971, and using the drug is illegal in UK.

The Misuse of Drugs Act states that it is an offence to:

- possess a controlled substance unlawfully
- possess a controlled substance with intent to supply it supply or offer to supply a controlled drug (even if it is given away for free)
- allow a house, flat or office to be used by people taking drugs

To enforce this law the police have special powers to stop, detain and search people under the 'reasonable suspicion' that they are in possession of a controlled drug.

LEGAL ADVICE

BEING HARASSED? Then contact the Solicitors from Civil Liberties and Human Rights... The rights guaranteed to suspects, defendants, offenders and prisoners in our justice system are fundamental human rights that protect us all from governmental abuse of power. And the solicitors from BSB Law are committed to upholding these rights. Their solicitors are experienced in challenging the decisions of Courts, Local Authorities and Public Bodies, and they are currently involved in cases challenging the legality of decisions to prosecute parents under the Education Act for failing to ensure their children attend school and the scope of Anti-Social Behaviour Orders. For more information about their work in this area – you need James Skelsey. Their consultant Richard Parry is an experienced Civil Liberties campaigner and legal representative for the London Defence Monitoring Group. Parry has represented many protestors arrested as a result of the May Day and other political demonstrations. He is an expert in defending cases related to the supply, possession and importation of drugs. Contact Richard, if you are faced with prosecution.

Profile: Richard Parry of the BSB Law Firm... Richard began his career in 1987 working on the PC Blakelock murder trial at the Central Criminal Court, qualifying in 1994 as a solicitor - gaining higher rights of audience in 2006. He also has experience in the Coroner's Court, Courts Martial and before the Parole Board. Richard has been a Duty Solicitor since 1996 and furthermore Richard has a particular interest and expertise in drug and protest cases. He was involved in the leading medical cannabis case R v Taylor, Quayle & others whose petition to the House of Lords being rejected is now pending before the European Court of Human Rights. Add to that his involvement in numerous importation and supplying cases and is increasingly involved in Confiscation hearings under the Proceeds of Crime Act and other legislation. He has been interviewed on TV and Radio on the drugs issue, and spoken at Trafalgar Square. Richard was involved in defending many of the May Day protestors from 1999 onwards, in particular the only riot case from 1999, R v MacHale (2000). He currently assists 2 of the 5 British victims of police brutality from the G8 Summit in Genoa in 2001; the 2 trials there are expected to conclude in 2007. If you wish to contact Richard please e-mail him at richardvp@bsblaw.co.uk

BSB Law Solicitors undertake all work regularly conducted in the criminal courts at all levels and their practice encompasses all aspects of dishonesty, violence, and sexual offences and drugs offences. Worth noting – they also offer expertise in: Internet Crime - Explosives and Firearms - Road Traffic Matters - Licensing - Obscene Publications - Local Authority - Prosecutions - Environmental Crime.

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The team are exceptionally experienced in dealing with most drugs whether prescribed or controlled/illicit (as defined by the Misuse of Drugs Act 1971) and are regularly instructed to comment upon:

- Valuation - street prices and wholesale
- Drug prevalence
- Common methods of drug use and administration
- Cannabis cultivation and yield (including hydroponics)
- Possession with intent to supply
- Bulk purchase for personal use (scale of economy)
- Importation and distribution
- Dialogue interpretation and sequestration cases
- Proceeds of Crime Act, to name but few areas.

Contact: drugsexpert@release.org.uk

The counseling service is lead by Gary Sutton who is a member of the British Association for Counseling and Psychotherapy (BACP) and has an MSc in Therapeutic Counseling. Gary has many years of experience of working with people with drug, alcohol and emotional problems, and has delivered counseling in a variety of settings including drug treatment centers and prisons.

If you require further information, or would like details on commissioning the service then please contact Keith Edwards on keith@release.org.uk, or alternatively telephone 020 7324 2979.

Our legal surgery program currently operates in ten drug treatment centers across eight London boroughs, seeing over 1800 clients a year. People who use drugs problematically and engaging with the treatment centre can access a legal adviser for advice and assistance on a variety of issues, including:

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- Welfare benefits (including representation at tribunals)
- Debt
- Complaints against the police
- Criminal injuries compensation claims

→ TALK TO FRANK

If you want to talk, you can call FRANK, 24 hours a day, 365 days a year. (Free confidential drugs advice, they will signpost you to whatever service you may need). 0300 123 6600, text 82111, email: frank@talktofrank.com.

→ **NORML/UK** is a non-partisan, non-profit organization working for more research into the benefits of the uses of the hemp plant for all purposes. We aim to provide a support network to those seeking the normalization of cannabis consumption, and to influence a positive transformation of laws enabling responsible medical, spiritual, recreational and industrial uses in the UK.

Our five main objectives are outlined in our Cannabis Charter: Freedom, Evidence, Respect, Regulation and Medicinal cannabis. On our web site you will find information relating to medicinal and recreational cannabis.

We are seeking the reform of cannabis laws throughout the world. Hashish has been sold in coffeeshops in The Netherlands for forty years. Uruguay recently become the first country to officially legalize cannabis, and two States in the USA have also legalized, with more expected to follow suit.

If you would like to be part of the UK's leading campaign

----- The inclusion of the above organizations are only suggestions, and Weed World cannot be held responsible for content of external websites. -----

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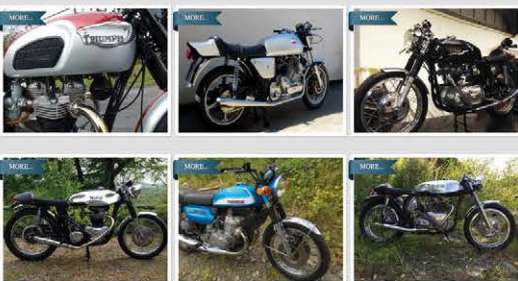
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- 🕒 Flowering 45 - 55 days
- ⚖️ Medium yield
- 80% indica

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